

Table of Contents

1. INTRODUCTION	3
1.1 Purpose and Scope	3
1.2 Glossary	3
1.2.1 Acronyms	3
1.2.2 Definitions	4
1.3 References	5
2. VALIDS	7
2.1 Relationship to CIP Specification	7
2.2 Valid Background	7
2.2.1 Global Change Master Directory (GCMD)	7
2.2.2 Information Management System (IMS)	7
2.2.3 ECS	8
2.2.4 CEO Metadata User Guide	8
2.2.5 FGDC	8
2.3 Valid Summary	9
2.4 Valid Maintenance	11
2.4.1 ICS Valid Identification and Collaboration Procedure	11
2.4.2 ICS Valid Values Control List Update Procedure	12
3. VALIDS (ALPHABETICAL ORDER)	14
3.1 AcquisitionStation	14
3.2 AcquisitionStatus	14
3.3 ArchivingCentreId	14
3.4 BandMode	14
3.5 BrowseCompression	15
3.6 BrowseFormat	15
3.7 CollectionCategory	15
3.8 CollectionHierarchyCategory	16
3.9 CollectionHierarchyPosition	16
3.10 Country	16
3.11 DataCentreName	22
3.12 GeoSpatialForm	43
3.13 GridCoordinateSystemName	43
3.14 GroupId	44
3.15 InstrumentIdentifier/InstrumentName	44
3.16 ItemDeliveryMethod	58
3.17 ItemDescriptorLanguage/ ItemLanguage	58
3.18 LocalAttributeValueSyntax	61
3.19 LocalUseAttributeFlag	62
3.20 MapProjectionName	62
3.21 MissionId	63
3.22 PassType	70
3.23 PeriodCycleUnit	71
3.24 PeriodDurationUnit	71
3.25 ProcessingCentre	71
3.26 ProcessingLevelId	72
3.27 ProcessingType	72

3.28 ProductCompression.....	73
3.29 ProductFormat	73
3.30 ProductMedium.....	74
3.31 ProjectName.....	75
3.32 Role	84
3.33 Scale	85
3.34 ScienceReviewStatus	85
3.35 SensorIdentifier/SensorName	85
3.36 SensorMode	86
3.37 SpatialKeyword.....	86
3.38 SpatialKeywordsThesaurus.....	94
3.39 SpatialResolution	95
3.40 StorageMedium	95
3.41 TemporalKeyword.....	96
3.42 TemporalKeywordsThesaurus.....	96
3.43 TemporalResolution	97
3.44 ThemeKeyword	97
3.45 ThemeKeywordsThesaurus.....	118
3.46 UpdateFrequency.....	118

List of Figures

List of Tables

1. INTRODUCTION

1.1 Purpose and Scope

This is the Catalogue Interoperability Protocol (CIP) Specification –Valid document. This document was developed under the auspices of the Committee on Earth Observation Satellites (CEOS) - Working Group on Information Systems and Services (WGISS) - Protocol Task Team (PTT). A complete list of organisations participating in the PTT is provided in the PTT Terms of Reference [PTT].

This document was developed in conjunction to the CIP specification [CIP-B].

###Valid are keywords that are obtained from a controlled list of terms.

They play an important role in achieving catalogue interoperability by providing a standard set of values for attributes that are understood by all participating catalogues.

Use of valids in the CINTeX experiment.

A number of international standardisation efforts already exist for the definition of valids. The PTT decided not to re-invent the wheel but to profit from these standards by re-using existing valid value control lists whenever possible. For the CIP valids all the sources that have used for their definition are stated.

The maintenance of valids raises two important issues:

What procedures are needed for the co-ordination with other standardisation groups

What rules and procedures need to be established for CIP only valids

1.2 Glossary

1.2.1 Acronyms

CEO	Centre for Earth Observation
CEOS	Committee on Earth Observation Satellites
CIP	Catalogue Interoperability Protocol
DIF	Directory Interchange Format
ECS	EOSDIS Core System
EO	Earth Observation
ESA	European Space Agency
GCMD	Global Change Master Directory
ICS	Interoperable Catalogue System
IMS	Information Management System
ISO	International Standards Organisation
NASA	National Aeronautics And Space Administration
PTT	Protocol Task Team
WGISS	Working Group on Information Systems and Services

1.2.2 Definitions

Attribute	<p>An attribute is one of the features of an EO collection or product that is of interest to the user that can be presented or searched on using the CIP. For example, SATELLITE IDENTIFIER, INSTRUMENT, LATITUDE, etc.</p> <p>A set of special attributes, such as MEANING, UNITS, ALIAS, etc., is used to define the meaning of the attributes in a common and unambiguous manner. These attributes are called semantic attributes. The semantic attributes are interchanged by the CIP in the process of passing definitions of attributes between a CIP client and the Retrieval Manager.</p>
Browse data	<p>Browse data is a derived representation or summary of data attributes that is provided by a catalogue system to facilitate user selection of EO products. The form and content of browse data is dependent on the nature of the EO data and the data selection criteria necessary for a science discipline to evaluate the EO data. A given EO product may be represented by several different browse data. For example with multi-channel data, browse data from one of several different channels or combinations of different channels may be required in order to represent different geophysical parameters and/or selection criteria. In addition a single large EO product may be represented by multiple browse data which depict specific regions or subsections of the EO product.</p> <p>Browse data is produced from the application of a browse service on an EO product, either dynamically at the time the browse data is requested by a user or as output which is stored as a system resource for retrieval at a later time. Examples of browse data include; 1 bit attribute maps (i.e., cloud mask), JPEG compressed images, subsampled reduced resolution images, data statistics and histograms).</p>
Catalogue system	<p>A catalogue system provides services such as inventory, browse, directory, order and guide, which may be supplemented by further services, but should contain at a minimum, inventory. The CIP is the protocol that shall enable the many services (but guide) of many catalogue systems to interoperate. Usually a catalogue system resides at a particular agency or data provider facility.</p>
Collection	<p>A grouping of item descriptors that have commonality. A collection consists of a number of attributes that describe the collective contents of the collection, the values of these attributes can then be searched on to select items of interest to the user. Collections also have members; these are the unique identifiers of the items that are grouped by the collection rather than their collective descriptions. As collection members can be identifiers of other collections, a hierarchy¹ of collections and product members can be established, therefore permitting a flexible and powerful organisation of data</p>
Interoperability	<p>Interoperability can be defined as the capability of the user interface and administrative software of one instance of a catalogue service to interact with other instances of catalogue services. Within CEOS, four levels of interoperability have been identified:</p> <p>A user accessing one service is routed directly to another related service. For example, a user is routed from one inventory service to another to extend a search, the user interface differences between the routed services are not hidden from the user.</p> <p>Similar to level 2 except that a user accessing one service is routed directly to another service and contextual information is also transmitted which may include information on the user., their interests and their activities at the original service. For example, search criteria can be passed, translated and loaded as a search query for the user to activate. At this level the user is still exposed to the differences between the two services, but related information can be shared.</p> <p>At level 3, the user is hidden from the specific operations of each service. A query is routed automatically between services and the results from each returned to the original access point. At this level (and levels 1 and 2) each service is likely to use a different data model and the query may need translation to reflect these differences. Similarly, the query results may also reflect the individual service data model and may or may not be translated before they are presented to the user. At this level, the user is no longer exposed to the differences between the service operations.</p> <p>At the highest level of interoperability, a single data model is assumed to apply to all services within an interoperable catalogue system. This a query entered at one service can be executed using a single distributed database. This level of interoperability permits direct database operations such as unions and joins between metadata held by different catalogue services and for operations. The interoperable system is thus seen as a single database system by the user.</p> <p>Within the CIP, interoperability includes the standardisation of dynamic client configuration to handle variable attributes from different catalogue systems, standardisation of attributes for common services, identification of common order procedures, etc. so that catalogue sites at different agencies appear to the user as a single site.</p>
Interoperable catalogue system	<p>A network of catalogue systems which provide users a view on each other. Each catalogue system is free to decide which collections of other catalogue systems are visible to its users, although some guidelines will have to be followed to ensure compatibility between collections and support commonality. Each individual catalogue system acts as an access point to the Interoperable Catalogue System and is generally served by a Retrieval Manager.</p>

¹

Inventory	<p>An inventory holds information about the data held in an archive. An inventory and archive should not be assumed to be the same thing, although they may in some cases be synonymous.</p> <p>An inventory is effectively a register of the EO data that is available for retrieval; it holds inventory entries which describe the EO products themselves. These inventory entries should not be assumed to have a one-to-one relationship with the individual data items held in an archive as a product may be formed by combinations of archive data items after further processing and in different formats. Likewise there may not be a one-to-one relationship between the inventory entry and the delivered EO product, as the user may specify a number of parameters within the order process that can result in a number of products from a single identified inventory entry.</p> <p>Further, the relationship between inventory entries and archive data items may be, in some cases, less concrete as inventory entries may also exist for data that is not as yet in the archive, for instance, the data has not yet been acquired by the archive system. For example, the ESA ERS-1/2 system does not distinguish between archived data and data yet to be acquired. In the ERS-1/2 system, the products ordered by a user is labelled an 'Observation Set' such that the observation could have occurred or is yet to occur.</p> <p>Whilst inventories do and will exist they are not modelled explicitly within the CIP domain. This is because the CIP domain sees each inventory entry as a separate product descriptor and never accesses data as a single complete inventory. Collections can be established that directly map to existing inventories, but the collection concept is not restricted to such groupings only.</p> <p>Therefore, inventories will still exist physically but not at the logical level in the CIP model.</p>
Inventory entry	<p>The term inventory entry is not used explicitly within the CIP domain model and it is only used within historical perspectives in the document as it has been superseded by the collection and product descriptor terminology. Previously within CEOS work it was used to represent a description of an inventory item (in general mapping on to an EO product) enabling product identification and retrieval.</p> <p>In the CIP model it is mapped to a product descriptor, primarily as the use of inventory entry logically makes little sense without the use of the term inventory.</p>
Product data	<p>A unique aggregation of data generated from information held in, or to be held in an archive (for predicted products). It can be located and retrieved by a user via the CIP, possibly following further processing, such as map projection, sub-setting, band selection, etc., after or during extraction of the raw data as stored in the archive.</p> <p>Whilst the data may be stored in an archive in a quite different format to that delivered to the user, the user is not normally aware of this. Further, the data may not be present in the archive at the time of order or may be generated on the fly as a result of the order. The user only sees, from item descriptors, product data that may be delivered. Of course there may be further information that is required which will change the format of delivery, but to the user it is still the same product data.</p> <p>The CIP does not prevent that the same archive item being held at different facilities (or providers), but it is assumed that each distinct item will be described by a different product descriptor.</p>
Query	<p>There are two types of query:</p> <p>Search query: a search query can be used to search a number of item descriptors as identified by the target of the query. The query acts as a filter on the item descriptors, therefore producing a more limited list of item descriptors. The matches that are made are returned to the user. A search query is not restricted to a single search query language but the unique names of the item descriptors should be supported by the search query language.</p> <p>Status query: a status query is directed towards a Retrieval Manager to check the status of a previous request, such as an on-going order or an on-going search query.</p> <p>There are other services that can act upon queries, such as cancel query, suspend query, etc., these control the flow of information between user and Retrieval Manager.</p>
Valids	<p>Valids are keywords that belong to a list of controlled terms</p>

1.3 References

- [CIP-B] *Catalogue Interoperability Protocol (CIP) Specification - Release B*, CEOS/WGISS/PTT/CIP-B, Issue 2.4, ###, Committee on Earth Observation Satellites
- [ECS] *ECS Core Metadata Standard Release 2.0*, 420-TP-001-005, December 1994, Hughes Applied Information Systems
- [GCMD] *Global Change Master Directory*, NASA/GSFC, <http://gcmd.gsfc.nasa.gov/>
- [PTT] *PTT Terms of Reference*, <http://ceos.ccrs.nrcan.gc.ca/taskteam/cip.html>
- [FGDC] *Contents Standard for Digital Geospatial Metadata*, June 8, 1994, Federal Geographic Data Committee

[CEO] *Development and Co-ordination of Valids for Element types of the CEO Enabling Services -Final Report , Issue 2.0, October 1997, TR/971712tr*

[IMS] ###

[ISO-L] ###

[ISO-C] ###

2. Valid

2.1 Relationship to CIP Specification

This document complements the CIP specification [CIP-B] by defining lists of controlled terms that are available for specific use attributes and retrieval elements. Use attributes are defined in Annex A.1 and the retrieval element in Annex B of the CIP Specification.

It is expected that the CIP Valid document is an evolving document, since over the life time of CIP based systems the number of valids will likely increase in order to satisfy user needs.

2.2 Valid Background

In order not to re-invent the wheel, the PTT decided to profit from existing standardisation efforts for the definition of the CIP valids. Using existing valids offers several advantages :

- interoperability with the other systems is facilitated
- the valids are already tested and accepted by users

The CIP Valids are defined using the following sources : GCMD [GCMD], ECS [ECS], IMS [IMS], CEO Metadata [CEO], FGDC [FGSC] and ISO standards [ISO-L] and [ISO-C].

Here follows a short description of each of the sources that were used for the CIP Valids.

2.2.1 Global Change Master Directory (GCMD)

NASA's Global Change Master Directory is a comprehensive source of information about satellite and in situ Earth science data, with broad coverage of the atmosphere, hydrosphere, oceans, solid Earth, and biosphere. The GCMD is the American Co-ordinating Node of the Committee on Earth Observation Satellites International Directory Network (CEOS IDN) and is a participant in the U.S. Global Change Research Program (USGCRP).

Varied types of resources can be accessed through this server which provides flat sets of keywords for Data centres, Locations, Projects or Campaigns, Sensors, Data sources and a four level list of keywords for Parameters. Some elements are controlled more tightly than others, namely Parameters, Location names, Sources and Sensors.

2.2.2 Information Management System (IMS)

The Earth Observing System (EOS), part of NASA's Mission to Planet Earth, is NASA's major contribution to the Global Change Research Program (GCRP). The Data and Information System component (EOSDIS) has been designed as a distributed system to support archival and distribution of data at multiple data centres. These centres are connected by an Information Management System (IMS) which provides an interface for "one stop shopping" for Earth science data, allowing users to search for and order data from multiple data centres in a single session.

This server provides general flat sets of keywords (or filters) for Parameters, Sensors, Data centres and Data sources and detailed flat sets of keywords for Parameters, Data sets, Sensors, Data centres, Data sources, Campaigns, Processing levels, Platforms and Instruments. The IMS has recently adopted the Global Change Master Directory keywords for geophysical parameter as the searchable valids in the system.

2.2.3 ECS

The Earth Observing System Data and Information System (EOSDIS) is a NASA-sponsored open, distributed information system that will manage the data and information from a variety of pre-EOS and EOS-era Earth observation satellites, as well as data from related Earth science field measurement programs and other data essential for the interpretation of these measurements. EOSDIS will provide end-to-end services from EOS instrument data collection to science data processing to full access to EOS and other Earth science data holdings.

The EOSDIS Core System (ECS) is the infrastructure of EOSDIS. ECS will provide scientists and other users a broad range of desk top services from 9 science data centers - known as the Distributed Active Archive Centers (DAACs).

2.2.4 CEO Metadata User Guide

The Centre for Earth Observation (CEO) of the European Commission started activities on metadata as a response to the strong requirement of European EO users, who mentioned their confusion due to the large number of existing standards and initiatives and their wish that CEO provides recommendations about metadata description in harmony with the existing programmes.

The CEO metadata approach consists in identifying several types of basic resources, each one being described by a well defined number of information or elements. An element may be simple or compound (with a structure including sub-elements), mandatory or optional depending on the fact that providing a value is mandatory or not, and repeatable or not. Depending on the element type, the assigned value must be selected within a predefined controlled list of keywords or valids [CEO]. This approach is currently used for the development of the CEO INFEO.

2.2.5 FGDC

The Federal Geographic Data Committee (FGDC) initiated work on the standard in June, 1992, through a forum on geospatial metadata and finalised it by June 1994.

The FGDC standard [FGDC] specifies the information content of metadata for a set of digital geospatial data. The purpose of the standard is to provide a common set of terminology and definitions for concepts related to these metadata. Metadata are data about the content, quality, condition, and other characteristics of data.

The major uses of metadata, as seen by the FGDC forum, are:

- to maintain an organization's internal investment in geospatial data,
- to provide information about an organization's data holdings to data catalogues, clearinghouses, and brokerages, and
- to provide information needed to process and interpret data to be received through a transfer from an external source.

The information included in the standard was selected based on four roles that metadata play:

- availability -- data needed to determine the sets of data that exist for a geographic location.
- fitness for use -- data needed to determine if a set of data meets a specific need.
- access -- data needed to acquire an identified set of data.
- transfer -- data needed to process and use a set of data.

2.3 Valids Summary

The table below summarises all terms (use attributes/schema elements) for which controlled keywords (valids) are needed in the CIP. It highlights if the term is used in the product descriptor, collection descriptor or in both. In the columns C-Use Attribute'(collection) and P-Use Attribute'(product) indicate whether the term is searchable.

Term	Description	C-Use Attribute	P-Use Attribute	Product Descriptor	Collection Descriptor
AcquisitionStation	Identifier of the station, which will or has received the data.			Y	N
AcquisitionStatus	Status of the acquisition, e.g. 'acquired' etc.			Y	N
ArchivingCentreId	Unique code for the agency/data centre holding the data. Several copies of a single pass can exist and each archive will be listed as a possible source of that pass.	Y	Y	Y	Y
BandMode	Set of flags describing the status of activity of each band (active or not active).			Y	Y
BrowseCompression	Description of the method used for compression of the browse data.			Y	Y
BrowseFormat	Format of the browse data, e.g. GIF.			Y	Y
CollectionCategory	Category of a collection.	Y		N	Y
CollectionHierarchyCategory	Category of the hierarchy.	Y		N	Y
CollectionHierarchyPosition	Position of the collection in the collection hierarchy, i.e. 'terminal' or 'non-terminal'.	Y		N	Y
Country	The country of the address.			N	Y
DataCentreName	The data centre name is composed of both short and long versions in the same manner as short and long sensor and data source names.	Y		N	Y
GeospatialForm	A characterisation of the type of product, e.g. satellite image or map.	Y		N	Y
GridCoordinateSystemName	A plane-rectangular coordinate system usually based on, and mathematically adjusted to, a map projection so that geographic positions can be readily transformed to and from plane coordinates.			Y	Y
GroupId	Identification of the user groups having access to specific options, e.g. for product order options may differ for each user group.	Y	Y	Y	Y
InstrumentIdentifier	A short identifier (acronym) for the instrument.	Y	Y	Y	Y
InstrumentName	A text string (i.e. not an acronym) defining the instrument.			Y	Y
ItemDeliveryMethod	The method by which an item is delivered.			Y	Y
ItemDescriptorLanguage	The language in which the item descriptor is defined.	Y	Y	Y	Y
ItemLanguage	The language in which any textual information within the deliverable item is defined.		Y	Y	N
LocalAttributeValueSyntax	Value syntax (i.e. type) of a local attribute.			N	Y
LocalUseAttributeFlag	Flag indicating whether: a collection has no local attributes (value = 0) a collection has local attributes defined within the collection descriptor (value = 1) a collection has local attributes defined in the	Y		N	Y

Term	Description	C-Use Attribute	P-Use Attribute	Product Descriptor	Collection Descriptor
	Explain database (value = 2)				
MapProjectionName	Name of the map projection..			Y	Y
MissionId	Unique code for the satellite/mission.	Y	Y	Y	Y
PassType	Type of a satellite pass, i.e. 'ascending' or 'descending'.			Y	Y
PeriodCycleUnit	The unit specification of the cycle of the period, e.g. year, millisecond.			Y	Y
PeriodDurationUnit	The unit specification of the duration of the period, e.g. year, millisecond.			Y	Y
ProcessingCentre	Contains the short name of the data centre that has generated the data.	Y	Y	N	Y
ProcessingLevelId	This parameter identifies the processing level of the data in the archive.	Y		N	Y
ProcessingType	Type of processing, e.g. 'colour image product', 'GTC with DTM information'.			Y	Y
ProductCompression	Compression algorithm that can be applied when the data product is delivered.			Y	Y
ProductFormat	Format in which the data product is available, e.g. CEOS Superstructure, HDF, SDTS.			Y	Y
ProductMedium	Medium on which the product is available, e.g. CD-ROM, Exabyte.	Y	Y	Y	Y
ProjectName	This element should be supplied when there is a relationship of the collection to a campaign or project (e.g. WOCE, FIRE, PROMIS, etc.). Campaigns or projects usually encompass data from a number of diverse data sources. The element includes both short and long names.	Y		Y	Y
Role	The role of a person for the collection..	Y		N	Y
Scale	The scaling used for the data (e.g. map).	Y	Y	Y	Y
ScienceReviewStatus	Type of review which occurred on the Science Review Date.	Y		N	Y
SensorIdentifier	A mnemonic or otherwise abbreviated version (acronym) for the sensor.	Y	Y	Y	Y
SensorMode	Specific mode of the sensor.			Y	Y
SensorName	A text string (not acronym) defining the sensor name.			Y	Y
SpatialKeyword	The spatial keywords provide the capability of selecting place names to be used as search parameters, usually as an alternative to specifying latitudes and longitudes (which may not apply in some disciplines). For example, 'Tropical Region', 'Atlantic Ocean'.	Y		N	Y
SpatialKeywordsThesaurus	Reference to the thesaurus used for the spatial keywords.			N	Y
SpatialResolution	The minimum distance between two adjacent geographic points.	Y	Y	Y	Y
StorageMedium	Type of medium on which the data is currently stored.			N	Y
TemporalKeyword	The name of a time period covered by a	Y		N	Y
TemporalKeywordsThesauruses	Reference to the thesaurus used for the temporal keywords.			N	Y
TemporalResolution	The temporal frequency of data sampled.			Y	Y
ThemeKeyword	Controlled keyword list to define the theme (e.g.	Y		N	Y

Term	Description	C-Use Attribute	P-Use Attribute	Product Descriptor	Collection Descriptor
	discipline, topic) covered by a collection.				
ThemeKeywordsThesaurus	Reference to the thesaurus used for the theme keywords.			N	Y
UpdateFrequency	The frequency with which changes and additions are made to the data set after the initial data set is completed.			N	Y

###Note: UpdateFrequency is currently defined as String and not as ENUM in the CIP 2.3 specification. It is recommended to change this.

2.4 Valids Maintenance

The CIP Valid Values Control List is a composite of various agencies controlled list of values for specified attributes, coupled with CIP specific attribute value requirements. Because of this reliance on various agencies controlled list of values for approximately 80% of the CIP valid values, the CIP control list will require continual collaboration with the respective source agencies. Therefore, the overall objective of this section of the valids document is to provide a strategy which will require a degree of collaboration with source agencies and ICS Sites for supporting the maintenance and control of a CIP valid value control list. Towards this objective two procedures have been identified;

- Valids Identification and Collaboration, and
- Valid Values Control List Update.

Each of these activities are discussed below.

2.4.1 ICS Valids Identification and Collaboration Procedure

This is the first step in maintaining the CIP Valids Control List. During this activity valid values will be identified, evaluated and distributed to Source Agencies and ICS Sites for review and comment. In support of this activity three tasks have been identified and presented below. Within each task a brief description of the subtasks is also provided.

TASK 1: Collecting/Distributing Valid Value Requirements/Recommendations

- Conduct periodic valids review/solicitation meetings: The purpose of these meetings are to review the current CIP control list of valids for the purpose of validating that the values still support interoperability, and to address any pending recommendations for eliminating existing values or incorporating new values.

Evaluate requests for new or change values: Because the valids for the Use Attributes play a significant role in ensuring interoperability it is envisioned that there will be a constant flow of requests for incorporating new valids or eliminating existing valids. Additionally, because of the importance of this role, each request that is received will undergo a preliminary evaluation using the following criteria.

Supports or furthers interoperability: The following question will be answered and the answer recorded during this evaluation: Will the request support or further the tenets of ICS Interoperability? "How or How Not. i.e." If a request is received to delete a valid value from

the controlled list that several ICS sites are currently using, then a preliminary determination, regarding this request, should be to collaborate with the affected sites prior to taking any further action.

Scientific validity: This evaluation criteria will focus on the following primary question: Is the request for a new/changed value scientifically correct? i.e. If the request is to add a new value to the control list for the Spatial Keyword use attribute, and it is determined that the suggested value is not spatially valid, then the preliminary determination would be to return the request to the requester.

- Consolidate inputs for new or changed values

Periodically (TBD) a consolidated package of recommendations will be distributed to ICS Sites for review. This package will contain the original request and preliminary recommendations from review/solicitation meetings and evaluations.

TASK 2: Collaborating with Source Agencies

It will be necessary to provide requests to Source Agencies/Committees to incorporate CIP specific value recommendations in the Agency's control list. This structure/procedure for submitting the request may vary from agency to agency. Therefore the nature and complexity of this task may require extensive collaboration with the source agency.

Participation in the Source Agency's Valids Committees will be necessary in order to maintain the integrity of the control list of values. The degree of participation again will vary from agency to agency. However as a minimum it is envisioned that it will be necessary to monitor on a periodic basis the agency's control list of values. The intent of this task is to ensure that the changes/additions to the valids control list are recognized and adopted by ICS.

TASK 3: Approval Notification

This task ensure that the ICS Sites are notified of the approved recommendations/deletions/changes to the CIP Valids Controlled List. This notification will serve as a directive to perform the following procedures.

2.4.2 ICS Valid Values Control List Update Procedure

TASK 1: Procedure for updating Collections Database(CDB)

The Collections Database captures the actual instances of the valid values for the attributes. It is not anticipated that there will be many changes required to the CDB. However, in the event that a valid value requires modification a procedure will be made available for this use.

TASK 2: Procedure for updating Explain

Within an ICS System the Explain Database captures the valid values associated with each attribute so that the user can readily determine the values he may include in his search request. The Explain Database records the controlled list of attributes and therefore must be updated to reflect any change or deletion decision that was generated from the previous procedure. It is envisioned that this will be an automated procedure which will allow the data administrator at the ICS Site to easily incorporate these changes.

3. Valids (Alphabetical Order)

This section lists all valids in alphabetical order and provides for each:

- a description (extracted from Appendix B of the CIP specification [CIP-B]).
- the sources that have been used
- the recommended default valid
- all valids

3.1 AcquisitionStation

Description: Identifier of the station, which will or has received the data.

Sources: TBD

Default Valid:

3.2 AcquisitionStatus

Description: Status of the acquisition, e.g. 'acquired', 'planned', etc

Sources: CIP defined

Default Valid:

Valids
<i>Acquired</i>
<i>Planned</i>
<i>Possible</i>
<i>Presumed</i>

3.3 ArchivingCentreId

Description: Unique code for the agency/data centre holding the data. Several copies of a single pass can exist and each archive will be listed as a possible source of that pass.

Sources: TBD

Default Valid:

3.4 BandMode

Description: Set of flags describing the status of activity of each band (active or not active).

Sources: CIP defined

Default Valid:

Validates
<i>ACTIVE</i>
<i>NOT_ACTIVE</i>

3.5 BrowseCompression

Description: Description of the method used for compression of the browse data.

Sources: TBD

Default Valid:

3.6 BrowseFormat

Description: Format of the browse data, e.g. GIF.

Sources: [FGDC Browse Graphic File Type]

Default Valid:

Validates	Description
<i>CGM</i>	<i>Computer Graphics Metafile</i>
<i>EPS</i>	<i>Encapsulated Postscript format</i>
<i>GIF</i>	<i>Graphic Interchange Format</i>
<i>JPEG</i>	<i>Joint Photographic Experts Group format</i>
<i>PBM</i>	<i>Portable Bit Map format</i>
<i>PS</i>	<i>Postscript format</i>
<i>TIFF</i>	<i>Tagged Image File Format</i>
<i>XWD</i>	<i>X-Windows Dump</i>

3.7 CollectionCategory

Description: Category of a collection.

Sources: CIP defined

Default Valid;

Validates
<i>Registered</i>
<i>Unregistered</i>

3.8 CollectionHierarchyCategory

Description: Category of the hierarchy.

Sources: CIP defined

Default Valid:

Valid
Product

3.9 CollectionHierarchyPosition

Description: Position of the collection in the collection hierarchy, i.e. terminal or non-

Sources: CIP defined

Default Valid:

Valid
Terminal
Non-Terminal

3.10 Country

Description: The country of the address.

Sources: [ISO Country name]

Default Valid:

Valid
Afghanistan
Albania
Algeria
American Samoa
Andorra
Angola
Anguilla
Antarctica
Antigua and Barbuda
Argentina
Armenia
Aruba
Australia
Austria

Validates
<i>Azerbaijan</i>
<i>Bahamas</i>
<i>Bahrain</i>
<i>Bangladesh</i>
<i>Barbados</i>
<i>Belarus</i>
<i>Belgium</i>
<i>Belize</i>
<i>Benin</i>
<i>Bermuda</i>
<i>Bhutan</i>
<i>Bolivia</i>
<i>Bosnia and Herzegovina</i>
<i>Botswana</i>
<i>Bouvet Island</i>
<i>Brazil</i>
<i>British Indian Ocean Territory</i>
<i>Brunei Darussalam</i>
<i>Bulgaria</i>
<i>Burkina Faso</i>
<i>Burundi</i>
<i>Cambodia</i>
<i>Cameroon</i>
<i>Canada</i>
<i>Cape Verde</i>
<i>Cayman Islands</i>
<i>Central African Republic</i>
<i>Chad</i>
<i>Chile</i>
<i>China</i>
<i>Christmas Island</i>
<i>Cocos (Keeling) Islands</i>
<i>Colombia</i>
<i>Comoros</i>
<i>Congo</i>
<i>Cook Islands</i>
<i>Costa Rica</i>
<i>Cote d'Ivoire</i>
<i>Croatia</i>
<i>Cuba</i>
<i>Cyprus</i>
<i>Czech Republic</i>

Validates
<i>Denmark</i>
<i>Djibouti</i>
<i>Dominica</i>
<i>Dominican Republic</i>
<i>Ecuador</i>
<i>Egypt</i>
<i>El Salvador</i>
<i>Equatorial Guinea</i>
<i>Eritrea</i>
<i>Estonia</i>
<i>Ethiopia</i>
<i>Falkland Islands (Islas Malvinas)</i>
<i>Faroe Islands</i>
<i>Fiji</i>
<i>Finland</i>
<i>France</i>
<i>French Guiana</i>
<i>French Polynesia</i>
<i>French Southern Territories</i>
<i>Gabon</i>
<i>Gambia</i>
<i>Georgia</i>
<i>Germany</i>
<i>Ghana</i>
<i>Gibraltar</i>
<i>Greece</i>
<i>Greenland</i>
<i>Grenada</i>
<i>Guadeloupe</i>
<i>Guam</i>
<i>Guatemala</i>
<i>Guinea</i>
<i>Guinea-Bissau</i>
<i>Guyana</i>
<i>Haiti</i>
<i>Heard Island & McDonald Islands</i>
<i>Holy See (Vatican City State)</i>
<i>Honduras</i>
<i>Hungary</i>
<i>Iceland</i>
<i>India</i>
<i>Indonesia</i>

Validations
<i>Iran</i>
<i>Iraq</i>
<i>Ireland</i>
<i>Israel</i>
<i>Italy</i>
<i>Jamaica</i>
<i>Japan</i>
<i>Jordan</i>
<i>Kazakhstan</i>
<i>Kenya</i>
<i>Kiribati</i>
<i>"Korea, DPR"</i>
<i>"Korea, Republic of"</i>
<i>Kuwait</i>
<i>Kyrgyzstan</i>
<i>Laos</i>
<i>Latvia</i>
<i>Lebanon</i>
<i>Lesotho</i>
<i>Liberia</i>
<i>Libya</i>
<i>Liechtenstein</i>
<i>Lithuania</i>
<i>Luxembourg</i>
<i>Macau</i>
<i>"Macedonia, the Former Yugoslav Republic of"</i>
<i>Madagascar</i>
<i>Malawi</i>
<i>Malaysia</i>
<i>Maldives</i>
<i>Mali</i>
<i>Malta</i>
<i>Marshall Islands</i>
<i>Martinique</i>
<i>Mauritania</i>
<i>Mauritius</i>
<i>Mayotte</i>
<i>Mexico</i>
<i>Micronesia</i>
<i>Moldova</i>
<i>Monaco</i>
<i>Mongolia</i>

Validates
<i>Montserrat</i>
<i>Morocco</i>
<i>Mozambique</i>
<i>Myanmar</i>
<i>Namibia</i>
<i>Nauru</i>
<i>Nepal</i>
<i>Netherlands</i>
<i>Netherlands Antilles</i>
<i>New Caledonia</i>
<i>New Zealand</i>
<i>Nicaragua</i>
<i>Niger</i>
<i>Nigeria</i>
<i>Niue</i>
<i>Norfolk Island</i>
<i>Northern Mariana Islands</i>
<i>Norway</i>
<i>Oman</i>
<i>Pakistan</i>
<i>Palau</i>
<i>Panama</i>
<i>Papua New Guinea</i>
<i>Paraguay</i>
<i>Peru</i>
<i>Philippines</i>
<i>Pitcairn Islands</i>
<i>Poland</i>
<i>Portugal</i>
<i>Puerto Rico</i>
<i>Qatar</i>
<i>Reunion</i>
<i>Romania</i>
<i>Russian Federation</i>
<i>Rwanda</i>
<i>San Marino</i>
<i>Sao Tome and Principe</i>
<i>Saudi Arabia</i>
<i>Senegal</i>
<i>Seychelles</i>
<i>Sierra Leone</i>
<i>Singapore</i>

Validates
<i>Slovakia</i>
<i>Slovenia</i>
<i>Solomon Islands</i>
<i>Somalia</i>
<i>South Africa</i>
<i>South Georgia and the South Sandwich Is</i>
<i>Spain</i>
<i>Sri Lanka</i>
<i>St. Helena</i>
<i>St. Kitts and Nevis</i>
<i>St. Lucia</i>
<i>St. Pierre and Miquelon</i>
<i>St. Vincent and the Grenadines</i>
<i>Sudan</i>
<i>Suriname</i>
<i>Svalbard and Jan Mayen</i>
<i>Swaziland</i>
<i>Sweden</i>
<i>Switzerland</i>
<i>Syria</i>
<i>Taiwan</i>
<i>Tajikistan</i>
<i>"Tanzania, United Republic of"</i>
<i>Thailand</i>
<i>Togo</i>
<i>Tokelau</i>
<i>Tonga</i>
<i>Trinidad and Tobago</i>
<i>Tunisia</i>
<i>Turkey</i>
<i>Turkmenistan</i>
<i>Turks and Caicos Islands</i>
<i>Tuvalu</i>
<i>Uganda</i>
<i>Ukraine</i>
<i>United Arab Emirates</i>
<i>United Kingdom</i>
<i>United States</i>
<i>Uruguay</i>
<i>Uzbekistan</i>
<i>Vanuatu</i>
<i>Venezuela</i>

Valids
<i>Vietnam</i>
<i>"Virgin Islands, British"</i>
<i>"Virgin Islands, US"</i>
<i>Wallis and Futuna</i>
<i>Western Sahara</i>
<i>Samoa</i>
<i>Yemen</i>
<i>Yugoslavia</i>
<i>Zaire</i>
<i>Zambia</i>
<i>Zimbabwe</i>

3.11 DataCentreName

Description: The data centre name is composed of both short and long versions in the same manner as short and long sensor and data source names.

Sources: [GCMD Data Center]

Default Valid:

Valids	Descriptions
<i>AARC</i>	<i>Arctic & Antarctic Research Center</i>
<i>ACC</i>	<i>Alaska Climate Center</i>
<i>ACCA21</i>	<i>Administrative Center for China's Agenda 21</i>
<i>ACCU-WEATHER</i>	
<i>ACZDD</i>	<i>Atlantic Coastal Zone Database Directory</i>
<i>AEDC/UK</i>	<i>Antarctic Environmental Data Centre</i>
<i>AEDD</i>	<i>Arctic Environmental Data Directory</i>
<i>AES</i>	<i>Agricultural Experiment Station, Texas</i>
<i>AES/EC</i>	<i>Atmospheric Environment Service, EC</i>
<i>AETL</i>	<i>Army Engineers Topographic Laboratories</i>
<i>AGC/GSC/EMR</i>	<i>Atlantic Geoscience Centre, GSC, EMR</i>
<i>AGU</i>	<i>Aoyama Gakuin University</i>
<i>AIRS</i>	<i>Aerometric Information Retrieval System, EPA</i>
<i>ALF</i>	<i>National Agricultural Library Forum</i>
<i>AMES</i>	<i>Ames Research Center, NASA</i>
<i>AMES/GRAPES</i>	<i>NASA Ames Research Center GRAPES Project</i>
<i>AMPTE/APL</i>	<i>CCE Science Data Center, APL</i>
<i>AMRC</i>	<i>Antarctic Meteorology Research Center</i>
<i>ANCC/BOM</i>	<i>Australian National Climate Center Bureau of Meteorology</i>
<i>ANCC/BOM/NSWRO</i>	<i>Bureau of Meteorology New South Wales Regional Office</i>
<i>ANCC/BOM/NTRO</i>	<i>Bureau of Meteorology Northern Territory Regional Office</i>

Valids	Descriptions
ANCC/BOM/QRO	Bureau of Meteorology Queensland Regional Office
ANCC/BOM/SARO	Bureau of Meteorology South Australian Regional Office
ANCC/BOM/TARO	Bureau of Meteorology Tasmanian-Antarctica Regional Office
ANCC/BOM/VRO	Bureau of Meteorology Victorian Regional Office
ANCC/BOM/WARO	Bureau of Meteorology Western Australian Regional Office
AODC	Australian Oceanographic Data Centre
APHIS	Animal and Plant Health Inspection Service
APRF	Atmospheric Profiler Research Facility/Army Research Laboratory
APSRs	Aerial Photography Summary Record System
AQDEDCG	Air Quality Division, Environment Department Chiba Government
ARM ARCHIVE	Atmospheric Radiation Measurement Project Archive, DOE
ARB	Air Resources Branch, Ontario Ministry of the Environment and Energy, Canada
ARSI	Atmospheric Research Systems Inc.
ASDLS	Antarctic Seismic Data Library System
ASF	Alaska SAR Facility
ASF DAAC	ASF Distributed Active Archive Center
ATSDR	Agency for Toxic Substances and Disease Registry
AU	Auburn University
AUSLIG	Australian Survey and Land Information Group
AVISO	Archiving, Validation and Interpretation of Satellite Oceanographic Data
AWI	Alfred Wegener Institute for Polar and Marine Research
AWIS	Agricultural Weather Information Service, Inc.
AXYS	AXYS Software Ltd.
AZGS	Arizona Geological Survey
BADC	British Atmospheric Data Centre
BADC/RAL	British Atmospheric Data Center Rutherford Appleton Laboratory
BARTHOLOMEWS	
BAS	British Antarctic Survey
BBSO	Big Bear Solar Observatory
BDC	Backgrounds Data Center
BEA	Bureau of Economic Analysis
BEV	Bundesamt fuer Eich-und Vermessungswesen
BGS	British Geological Survey
BIO/F&O	Bedford Institute of Oceanography, Fisheries and Oceans, Canada
BISHOP MUSEUM	Bishop Museum Department of Natural Sciences
BLM	Bureau of Land Management
BODC	British Oceanographic Data Centre
BPRC	Byrd Polar Research Center
BROWN OBSERVATORY	
BTS	Bureau of Transportation Statistics
CALDEPTCON/CDMG/SACRAM ENTO	California Dept of Conservation, Division of Mines and Geology, Sacramento

Valids	Descriptions
<i>CARB</i>	<i>California Air Resource Board</i>
<i>CBP</i>	<i>Chesapeake Bay Program</i>
<i>CCAR/CU</i>	<i>Colorado Center for Astrodynamics Research University of Colorado</i>
<i>CCG/GC/NRCAN</i>	<i>Canada Centre for Geomatics, GC, NRCan</i>
<i>CCRS/GC/NRCAN</i>	<i>Canada Centre for Remote Sensing, GC, NRCan</i>
<i>CCRS/SMRSS/EMR</i>	<i>Canada Centre for Remote Sensing, SMRSS, EMR</i>
<i>CDC</i>	<i>Communications Data Services, Inc.</i>
<i>CDDIS</i>	<i>Crustal Dynamics Data Information System</i>
<i>CDIAC</i>	<i>Carbon Dioxide Information Analysis Center, DOE</i>
<i>CEADO</i>	<i>Centro Argentino de Datos Oceanograficos</i>
<i>CEDAR</i>	<i>Coupling, Energetics & Dynamics of Atmospheric Regions</i>
<i>CEDARE</i>	<i>Centre for Environment and Development for the Arab Region and Europe</i>
<i>CEDO</i>	<i>Centro Espanol de Datos Oceanograficos</i>
<i>CENDOC</i>	<i>Centro Nacional de Datos Oceanograficos de Chile</i>
<i>CENPAT</i>	<i>Patagonian National Centre</i>
<i>CERB</i>	<i>Centro de Estudios de Recursos Bioticos</i>
<i>CERC</i>	<i>Coastal Engineering Research Center</i>
<i>CERC/FRF</i>	<i>Coastal Engineering Research Center, Field Research Facility</i>
<i>CERIS</i>	<i>Center for Environmental and Regulatory Systems</i>
<i>CES</i>	<i>Cooperative Extension Service</i>
<i>CES/USGS</i>	<i>Cooperative Extension Service/ U.S. Geological Survey</i>
<i>CESBIO</i>	<i>Centre d'Etudes Spatiales de la Biosphere</i>
<i>CGEIC</i>	<i>Canadian Global Emissions Interpretation Centre (CGEIC)</i>
<i>CH</i>	<i>Chadwyck-Healey Inc.</i>
<i>CHF</i>	<i>Chadwyck-Healey Inc. of France</i>
<i>CHS</i>	<i>Chadwyck-Healey Inc. of Spain</i>
<i>CIESIN</i>	<i>Consortium for International Earth Science Information Network</i>
<i>CIKARD</i>	<i>Center for Indigenous Knowledge for Agriculture and Rural Development</i>
<i>CIR</i>	<i>Center for International Research</i>
<i>CIS</i>	<i>Chemical Information Systems</i>
<i>CLBRR/CEF/AGR</i>	<i>Centre for Land and Biological Resources Research, CEF, AGR</i>
<i>CMO/GC/NRCAN</i>	<i>Canada Map Office, GC, NRCan</i>
<i>CNES</i>	<i>Centre National d'Etudes Spatiales, France</i>
<i>CNIG</i>	<i>Centro Nacional de Informacion Geographica, Spain</i>
<i>CNL</i>	<i>Crocker Nuclear Laboratory</i>
<i>CNODC</i>	<i>China National Oceanographic Data Center</i>
<i>CNR/IROE</i>	<i>Consiglio Nazionale delle Ricerche/Istituto di Ricerca sulle Onde Elettromagnet.</i>
<i>CNRE MADAGASCAR</i>	<i>Centre National de Recherche sur l'Environnement, Madagascar</i>
<i>CNRM/GMME</i>	<i>Centre National de Recherche Meteorologique</i>
<i>COBA</i>	<i>Centro Oceanografico Buenos Aires</i>
<i>CPS/EC</i>	<i>Canadian Parks Service, EC</i>
<i>CRES/ANU</i>	<i>Centre for Resource and Environmental Studies, Australian National University</i>

Valids	Descriptions
<i>CRIS</i>	<i>Current Research Information System</i>
<i>CRL</i>	<i>Communications Research Laboratory</i>
<i>CRSGS</i>	<i>China Remote Sensing Satellite Ground Station</i>
<i>CRSSA/CC</i>	<i>Center for Remote Sensing and Spatial Analysis, Cook College</i>
<i>CRU</i>	<i>Climate Research Unit, University of East Anglia</i>
<i>CSA</i>	<i>Canadian Space Agency</i>
<i>CSC</i>	<i>Computer Science Corporation</i>
<i>CSS</i>	<i>Center for Seismic Studies, DARPA</i>
<i>CSSA</i>	<i>Center for Space Science and Astrophysics</i>
<i>CSU</i>	<i>Colorado State University</i>
<i>CSU/MIT</i>	<i>Colorado State University, Massachusetts Institute of Technology</i>
<i>CSU/NREL</i>	<i>Colorado State University Natural Resource Ecology Laboratory</i>
<i>CTIC</i>	<i>Conservation Technology Information Center</i>
<i>CU - CORNELL</i>	<i>Cornell University</i>
<i>CU - CLEMSON</i>	<i>Clemson University</i>
<i>CWS</i>	<i>Canadian Wildlife Service</i>
<i>CYPRESS</i>	<i>Cypress Geo-Resources, Inc.</i>
<i>DACEOU</i>	<i>Department of Applied Chemistry and Engineering, Oita University</i>
<i>DALI</i>	<i>CNES-SPOT IMAGE Catalogue</i>
<i>DEAPO</i>	<i>Department of Environment, Aichi Prefecture Office</i>
<i>DECEKU</i>	<i>Department of Civil Engineering, Kyushu University</i>
<i>DEPK</i>	<i>Department of Environment and Pollution, Kumamoto Prefecture</i>
<i>DEYP</i>	<i>Department of Environment Yamanashi Prefecture</i>
<i>DHETP</i>	<i>Department of Health and Environment Tokushima Prefecture</i>
<i>DIASHU</i>	<i>Department of Integrated Arts and Sciences, Hiroshima University</i>
<i>DKRZ</i>	<i>Deutsches Klimarechenzentrum GmbH</i>
<i>DLR/DFD</i>	<i>German Remote Sensing Data Center, Deutsches Fernerkundungsdatenzentrum (DFD)</i>
<i>DMA/CSC</i>	<i>Defense Mapping Agency Combat Support Center</i>
<i>DOD</i>	<i>Deutsches Ozeanographisches Datenzentrum</i>
<i>DOE/BNL</i>	<i>Brookhaven National Laboratory, DOE</i>
<i>DOE/EIA</i>	<i>Department of Energy, Energy Information Administration</i>
<i>DOE/EML</i>	<i>Department of Energy Environmental Measurements Lab</i>
<i>DRA</i>	<i>Defense Research Agency</i>
<i>DRAO</i>	<i>Dominion Radio Astrophysical Observatory</i>
<i>DSEMU</i>	<i>Department of Science and Engineering, Meiji University</i>
<i>DUPAGE</i>	<i>College of DuPage, Illinois</i>
<i>DVNII</i>	<i>Far East Research Institute for Hydrometeorology</i>
<i>DWD</i>	<i>Deutscher Wetterdienst</i>
<i>DWD/GPCC</i>	<i>Global Precipitation Climatology Centre</i>
<i>DWD/NKDZ</i>	<i>Nationales Klimadatenzentrum</i>
<i>EC</i>	<i>Environment Canada</i>
<i>ECLAT-ESCG</i>	<i>Evolution du Climat et de l'Atm-Economie et Societe Face aux Changements Globaux</i>

Valid	Descriptions
<i>ECMWF</i>	<i>European Centre for Medium-Range Weather Forecasts</i>
<i>ECS-GSFC</i>	<i>EOSDIS Core System Goddard Space Flight Center</i>
<i>EDC_DAAC</i>	<i>EROS Data Center Distributed Active Archive Center</i>
<i>EDIMAR</i>	<i>Estacion de Investigaciones Marinas Isla Margarita - FLASA</i>
<i>EDIMS/UNH</i>	<i>Environmental Data and Information Management System, Univ. of New Hampshire</i>
<i>EESD/LANL</i>	<i>Earth & Environmental Sciences Division/Los Alamos National Laboratory</i>
<i>EIC/ITE</i>	<i>Environmental Information Centre at the Institute of Terrestrial Ecology</i>
<i>EII</i>	<i>EarthInfo Inc.</i>
<i>EINET</i>	<i>Eurimage/eiNet</i>
<i>ELTU</i>	<i>Environmental Laboratory Tohoku University</i>
<i>ENEA-CR</i>	<i>ENEA - Casaccia - Roma</i>
<i>ENVIRONET</i>	<i>Space Environment Information Service</i>
<i>EOC</i>	<i>Earth Observation Center</i>
<i>EODC</i>	<i>Earth Observation Data Centre</i>
<i>EOSAT</i>	<i>Space Imaging EOSAT</i>
<i>EPA</i>	<i>Environmental Protection Agency</i>
<i>EPA/AREAL/EERD/GCRB</i>	<i>Global Climate Research Branch</i>
<i>EPA/NERL</i>	<i>National Exposure Research Laboratory, EPA</i>
<i>EPD</i>	<i>European Pollen Database</i>
<i>EPRI</i>	<i>Electric Power Research Institute</i>
<i>EPRI/ASDC</i>	<i>Electric Power Research Institute/Atmospheric Sciences Data Center</i>
<i>EREN/DOE</i>	<i>Energy Efficiency and Renewable Energy Network, DOE</i>
<i>ERIDAN-1</i>	<i>Eridan-1 Ltd.</i>
<i>EROS</i>	<i>Earth Resources Observation Systems Data Center</i>
<i>ERS</i>	<i>Economic Research Service</i>
<i>ESA ERS-1 US</i>	<i>European Space Agency ERS-1 Users Service</i>
<i>ESA/ESOC</i>	<i>European Space Agency/ESOC</i>
<i>ESA/ESRIN DEX/EU</i>	<i>European Space Agency/ESRIN Earth Remote Sensing User Services</i>
<i>ESA/ESRIN RS/OD</i>	<i>European Space Agency/ESRIN Remote Sensing Services</i>
<i>ESCIC</i>	<i>Environmental Surveillance Center of Ichihara City</i>
<i>ESDD</i>	<i>Earth Science Data Directory, USGS</i>
<i>ESHSNU</i>	<i>Department of Earth Sciences, Humanities and Sciences, Nihon University</i>
<i>EURIMAGE SCRL</i>	
<i>FAO</i>	<i>Food and Agriculture Organization of the United Nations</i>
<i>FAO/FI</i>	<i>Food and Agriculture Organization of the United Nations, Fisheries Department</i>
<i>FARM-A-SYST</i>	<i>National Farm Assessment Office</i>
<i>FC</i>	<i>Forestry Canada</i>
<i>FCAGLP</i>	<i>Facultad de Ciencias Astronomicas y Geofisicas</i>
<i>FED/BMR</i>	<i>Bureau of Mineral Resources, Australia</i>
<i>FED/BRR</i>	<i>Bureau of Rural Resources, Australia</i>
<i>FED/NRC</i>	<i>National Resource Information Centre, Australia</i>
<i>FHG/IFU</i>	<i>Fraunhofer Institute for Atmospheric Environmental Research</i>

Valids	Descriptions
<i>FIAMS</i>	<i>Flinders Institute for Atmospheric and Marine Sciences</i>
<i>FIMR</i>	<i>Finnish Institute of Marine Research</i>
<i>FLA/DOT</i>	<i>Florida Department of Transportation</i>
<i>FO</i>	<i>Fisheries and Oceans, Canada</i>
<i>FSE/SUT-NISHIMURA LABORATORY</i>	<i>Faculty of Science and Engineering, Science University of Tokyo, Nishimura Labo</i>
<i>FSPFES</i>	<i>Fukushima Prefecture Fisheries Experiment Station</i>
<i>FSU</i>	<i>Florida State University</i>
<i>FSU/COAPS</i>	<i>Florida State University Center for Ocean-Atmospheric Prediction Studies</i>
<i>FSU/METO</i>	<i>Florida State University, Meteorology Department</i>
<i>FTRS</i>	<i>Fruit Tree Research Station</i>
<i>FUB</i>	<i>Institute for Meteorology Free University Berlin</i>
<i>FWIE</i>	<i>Fish and Wildlife Information Exchange, Virginia Tech</i>
<i>FWS/ALASKA</i>	<i>U.S. Fish and Wildlife Service, Alaska</i>
<i>G2 ENVIRONMENTAL</i>	<i>G2 Environmental, Inc.</i>
<i>GC/NRCAN</i>	<i>Geomatics Canada, NRCan</i>
<i>GCIP</i>	<i>GCIP Project Office</i>
<i>GDC/GSC/NRCAN</i>	<i>Geophysical Data Centre, GSC, NRCan</i>
<i>GDCEDC</i>	<i>GALE, ERICA Data Center, Drexel University</i>
<i>GDS</i>	<i>GeoMet Data Services, Inc.</i>
<i>GDT</i>	<i>Geographic Data Technology</i>
<i>GEOLYTICS</i>	
<i>GEOTERREX</i>	<i>GEOTERREX, A Division of CGG Canada Ltd.</i>
<i>GETECH</i>	<i>Geophysical Exploration Technology</i>
<i>GFZ</i>	<i>Geo Research Center Potsdam</i>
<i>GIC</i>	<i>GRASS Information Center</i>
<i>GIRIN</i>	<i>Government Industrial Research Institute, Nagoya</i>
<i>GISS</i>	<i>Goddard Institute for Space Studies, NASA</i>
<i>GIT</i>	<i>Georgia Institute of Technology</i>
<i>GKSS</i>	<i>GKSS Forschungszentrum GmbH Geesthacht, Germany</i>
<i>GLA</i>	<i>Goddard Laboratory for Atmospheres, NASA/GSFC</i>
<i>GLFC/FC</i>	<i>Great Lakes Forestry Centre, FC</i>
<i>GLOBE</i>	<i>Global Learning and Observations to Benefit the Environment</i>
<i>GMW</i>	<i>Galson MesoWeather</i>
<i>GOLDIS</i>	<i>Geophysics On-Line Data and Information System</i>
<i>GONG DMAC</i>	<i>GONG Data Management and Analysis Center</i>
<i>GRDC</i>	<i>Global Runoff Data Center</i>
<i>GSALA</i>	<i>Geological Survey of Alabama</i>
<i>GSI</i>	<i>Geographical Survey Institute</i>
<i>GSC</i>	<i>Geological Survey of Canada</i>
<i>GSC/EMR</i>	<i>Geological Survey of Canada, EMR</i>
<i>GSC/NRCAN</i>	<i>Geological Survey of Canada, NRCan</i>

Valids	Descriptions
<i>GSC/ATL/NRCAN</i>	<i>Geological Survey of Canada, Atlantic, NRCan</i>
<i>GSD/SMRSS/EMR</i>	<i>Geodetic Survey Division, SMRSS, EMR</i>
<i>GSF PUC</i>	<i>GSF Research Center for Environment and Health</i>
<i>GSFC ACDB</i>	<i>Atmospheric Chemistry and Dynamics Branch, NASA</i>
<i>GSFC DE</i>	<i>GSFC Dynamics Explorer, NASA</i>
<i>GSFC/CRB</i>	<i>Goddard Space Flight Center Climate Radiation Branch, NASA</i>
<i>GSFC/HYDRO</i>	<i>Laboratory for Hydrospheric Processes, NASA</i>
<i>GSFC/LA</i>	<i>Goddard Space Flight Center Laboratory for Atmospheres</i>
<i>GSFC/OIB</i>	<i>Goddard Space Flight Center Oceans and Ice Branch, NASA</i>
<i>GSFC/TRMM</i>	<i>Goddard Space Flight Center Tropical Rainfall Measuring Mission, NASA</i>
<i>GSFC_DAAC</i>	<i>Goddard Space Flight Center Distributed Active Archive Center, NASA</i>
<i>GSH</i>	<i>Geological Survey of Hokkaido</i>
<i>GSJ</i>	<i>Geological Survey of Japan</i>
<i>GSS</i>	<i>Geophysical Survey of Slovenia</i>
<i>GWC</i>	<i>Gulf Weather Corporation</i>
<i>HARVARD/APPSCIENCE</i>	<i>Harvard University Division of Applied Sciences</i>
<i>HARVARD/LTER</i>	<i>Harvard University, Harvard Forest</i>
<i>HCFES</i>	<i>Hokkaido Central Fisheries Experimental Station</i>
<i>HDPI</i>	<i>Hydrosphere Data Products Inc.</i>
<i>HE</i>	<i>Hamilton Exploration</i>
<i>HIT</i>	<i>Hachinohe Institute of Technology</i>
<i>HNAES</i>	<i>Hokkaido National Agricultural Experiment Station</i>
<i>HNHS</i>	<i>Hellenic Navy Hydrographic Service</i>
<i>HPCC</i>	<i>High Plains Climate Center</i>
<i>HPFES</i>	<i>Hyogo Prefectural Fisheries Experimental Station</i>
<i>HU</i>	<i>Hirosaki University</i>
<i>IAA</i>	<i>Instituto Antartico Argentino</i>
<i>IAS</i>	<i>Institut d'Aeronomie Spatiale</i>
<i>ICASALS</i>	<i>International Center for Arid and Semi-Arid Land Study</i>
<i>ICES/SVC_HYDR</i>	<i>International Council for the Exploration of the Sea, Service Hydrographique</i>
<i>ICPRB</i>	<i>Interstate Commission on the Potomac River Basin</i>
<i>ICPSR</i>	<i>Inter-university Consortium for Political and Social Research</i>
<i>ICRAF</i>	<i>International Centre for Agroforestry</i>
<i>ICSF/SUNY/BUFFALO</i>	<i>Ice Core Storage Facility, State University of New York, Buffalo</i>
<i>IDI</i>	<i>Intermountain Digital Imaging</i>
<i>IDRC</i>	<i>International Development Research Centre</i>
<i>IFM</i>	<i>Institut fuer Meereskunde, Kiel, Germany</i>
<i>IFSI</i>	<i>Istituto di Fisica dello spazio Interplanetario, CNR</i>
<i>IGAC-GEIA</i>	<i>GEIA Data Management and Information Exchange Center</i>
<i>IGC</i>	<i>Institute for Global Communications, San Francisco</i>
<i>IGNE</i>	<i>IGN ESPACE</i>
<i>IGPO</i>	<i>International GEWEX Project Office</i>

Valids	Descriptions
<i>IGS/CBIS</i>	<i>International GPS Service for Geodynamics, Central Bureau Information System</i>
<i>IGS/CIGNET</i>	<i>International GPS Service for Geodynamics, NOAA Geosciences Lab</i>
<i>IGS/GSD/NRCAN</i>	<i>International GPS Service for Geodynamics, Natural Resources, Canada</i>
<i>IGS/IFAG</i>	<i>International GPS Service for Geodynamics, Institut fuer Angewandte Geodäsie</i>
<i>IGS/IGN</i>	<i>IGS GPS Service, Institut Geographique National Global Data Center, France</i>
<i>IGS/JPL</i>	<i>International GPS Service for Geodynamics, JPL Special Data Center</i>
<i>IGS/SIO</i>	<i>International GPS Service for Geodynamics, Scripps Institution of Oceanography</i>
<i>IISTU</i>	<i>Institute of Industrial Science, Tokyo University</i>
<i>IMDC</i>	<i>Irish Marine Data Centre</i>
<i>INAC</i>	<i>Indian and Northern Affairs Canada</i>
<i>INFOCLIMA</i>	<i>World Climate Data and Information Referral Service (UN WMO)</i>
<i>ING/ROME</i>	<i>Istituto Nazionale di Geofisica, Rome, Italy</i>
<i>INNOTECH</i>	<i>Innotech Aviation Limited</i>
<i>INOCAR</i>	<i>Instituto Oceanografico de la Armada</i>
<i>INODC</i>	<i>Indian National Oceanographic Data Centre</i>
<i>INPE</i>	<i>Instituto Nacional de Pesquisas Espaciais</i>
<i>INPE/CPTEC</i>	<i>Centro de Previsao de Tempo e Estudos Climaticos</i>
<i>INPE/DAE/FISAT</i>	<i>INPE/Aeronomy Division/Fisca da Alta Atmosfera (Upper Atmosphere Research)</i>
<i>INPE/DAS</i>	<i>INPE Astrophysics Division</i>
<i>INPE/DGI</i>	<i>INPE Divisao de Geracao de Imagens</i>
<i>INPE/DSA</i>	<i>INPE Div. of Environmental Satellites Ops.</i>
<i>INPE/DSM</i>	<i>INPE Divisao de Sensoriamento Remoto</i>
<i>INPE/DSR</i>	<i>INPE Division of Remote Sensing</i>
<i>INPE/IGGDC</i>	<i>INPE Geochemistry and Geophysical Data Center</i>
<i>IOF</i>	<i>Institute of Oceanography and Fisheries</i>
<i>IPCC</i>	<i>Intergovernmental Panel on Climate Change</i>
<i>IPCR</i>	<i>The Institute of Physical and Chemical Research</i>
<i>IPL</i>	<i>Istituto Per L'Ambiente</i>
<i>IPPRC</i>	<i>Ibaraki Prefectural Pollution Research Center</i>
<i>IRE-CPSSI</i>	<i>IRE RAS Center of Processing and Storing the Space Information</i>
<i>IRIS</i>	<i>Incorporated Research Institutions for Seismology</i>
<i>ISAS</i>	<i>Institute for Space and Astronautical Sciences</i>
<i>ISIS</i>	<i>Intelligent Satellite Data Information System</i>
<i>ISPG</i>	<i>Institute of Sedimentary & Petroleum Geology</i>
<i>ISPG/GSC/EMR</i>	<i>Institute of Sedimentary & Petroleum Geology, GSC, EMR</i>
<i>ISS</i>	<i>Institute for Social Studies</i>
<i>ISTAR</i>	<i>Imagerie STereo Appliquee au Relief</i>
<i>ISWS</i>	<i>Illinois State Water Survey</i>
<i>ITA</i>	<i>Institute of Theoretical Astrophysics, Oslo, Norway</i>
<i>IUCN</i>	<i>IUCN-The World Conservation Union</i>
<i>IUCN/SSC/AFESG</i>	<i>African Elephant Specialist Group - Species Survival Commission - WCU</i>
<i>JAMSTEC</i>	<i>Japan Marine Science and Technology Center</i>

Valids	Descriptions
<i>JER</i>	<i>Jornada Experimental Range</i>
<i>JHU/APL</i>	<i>Johns Hopkins University Applied Physics Laboratory</i>
<i>JNODC</i>	<i>Japan Oceanographic Data Center</i>
<i>JPL</i>	<i>Jet Propulsion Lab, NASA</i>
<i>JPL/ATMOS</i>	<i>Jet Propulsion Laboratory/ATMOS, NASA</i>
<i>JPL/PODAAC</i>	<i>Physical Oceanography Distributed Active Archive Center</i>
<i>JRC/SAI</i>	<i>Space Applications Institute at Joint Research Center (JRC), Ispra (VA) /Italy</i>
<i>JSC</i>	<i>Lyndon B. Johnson Space Center, NASA</i>
<i>JWA</i>	<i>Japan Weather Association</i>
<i>KADAI</i>	<i>Department of Applied Chemistry Chemical Engineering, Kagoshima University</i>
<i>KERC</i>	<i>Kanagawa Environmental Research Center</i>
<i>KMRIEP</i>	<i>Kawasaki Municipal Research Institute for Environmental Protection</i>
<i>KOPES</i>	<i>Kochi Prefectural Fisheries Experimental Station</i>
<i>KPFES</i>	<i>Kanagawa Prefectural Fisheries Experimental Station</i>
<i>KSU/LTER</i>	<i>Kansas State University, Konza Prairie LTER Site</i>
<i>KUC</i>	<i>Kobe University of Commerce</i>
<i>KUDA</i>	<i>Kuwait Data Archive</i>
<i>LARC</i>	<i>Langley Research Center, NASA</i>
<i>LARC/UADP</i>	<i>Langley Research Center/Upper Atmosphere Data Program</i>
<i>LARC_DAAC</i>	<i>Langley Research Center Distributed Active Archive Center, NASA</i>
<i>LDEO</i>	<i>Lamont-Doherty Earth Observatory</i>
<i>LDEO/CG</i>	<i>Lamont-Doherty Earth Observatory Climate Group</i>
<i>LFC/FC</i>	<i>Laurentian Forestry Centre, FC</i>
<i>LLNL</i>	<i>Lawrence Livermore National Laboratory</i>
<i>LMD</i>	<i>Laboratoire de Meteorologie Dynamique</i>
<i>LPARL</i>	<i>Lockheed Palo Alto Research Laboratory</i>
<i>LRRL</i>	<i>Livestock and Range Research Laboratory</i>
<i>LSC/METO</i>	<i>Lyndon State College, Meteorology Department</i>
<i>LSR</i>	<i>Laboratory for Space Research, Utrecht, The Netherlands</i>
<i>LTER</i>	<i>Long-Term Ecological Research Network Office</i>
<i>MACLAREN</i>	<i>MacLaren Plansearch Ltd/ SNC/Lavalin Inc</i>
<i>MARF/EUMETSAT</i>	<i>Meteorological Archive Retrieval Facility/ EUMETSAT</i>
<i>MARIS</i>	<i>Marine Information Service</i>
<i>MARTEC</i>	<i>Martec, Ltd</i>
<i>MBARI</i>	<i>Monterey Bay Aquarium Research Institute</i>
<i>MBL/LTER</i>	<i>Marine Biological Laboratory, Woods Hole</i>
<i>MCAU</i>	<i>Mining College, Akita University</i>
<i>MDD/INAC</i>	<i>Mineral Development Division, INAC</i>
<i>MDDNR</i>	<i>Maryland Department of Natural Resources</i>
<i>MDNR</i>	<i>Michigan Department of Natural Resources</i>
<i>MEDIAS</i>	<i>Support Office for Regional Research on Global Environmental Change</i>
<i>MEDS</i>	<i>Marine Environmental Data Service</i>

Valids	Descriptions
<i>MERI</i>	<i>Marine Ecology Research Institute</i>
<i>MIAS</i>	<i>Marine Information & Advisory Service</i>
<i>MIC</i>	<i>Meteorological Information Center (JWA)</i>
<i>MICROMEDEX</i>	<i>Micromedex, Inc.</i>
<i>MIT/WRL</i>	<i>Massachusetts Institute of Technology Weather Radar Laboratory</i>
<i>MMS/GOMR</i>	<i>Minerals Management Service, Gulf of Mexico Outer Continental Shelf Region</i>
<i>MODB</i>	<i>Mediterranean Oceanic Data Base</i>
<i>MPFES</i>	<i>Miyagi Prefectural Fisheries Experimental Station</i>
<i>MPI</i>	<i>Max Planck Institute</i>
<i>MRD/GSC/EMR</i>	<i>Mineral Resources Division, GSC, EMR</i>
<i>MRI/JMA</i>	<i>Meteorological Research Institute Japan Meteorological Agency</i>
<i>MRJ INC.</i>	
<i>MRSC</i>	<i>Manitoba Remote Sensing Centre, Manitoba, Canada</i>
<i>MSC</i>	<i>Media Services Corporation</i>
<i>MSDST</i>	<i>MODIS Science Data Support Team</i>
<i>MSFC</i>	<i>Marshall Space Flight Center, NASA</i>
<i>MSFC/GHRC</i>	<i>Global Hydrology Resource Center, NASA/MSFC</i>
<i>MSFC-SDC</i>	<i>MSFC Solar Data Center</i>
<i>MSLAB</i>	<i>Marine Science Laboratory, Faculty of Engineering, Oita University</i>
<i>MSO</i>	<i>Mees Solar Observatory, University of Hawaii</i>
<i>MSSL</i>	<i>Mullard Space Sciences Laboratory, UK</i>
<i>MSU</i>	<i>Michigan State University</i>
<i>MSU/LTER</i>	<i>Michigan State University, Kellogg Biological Station (KBS)</i>
<i>MUOHIO</i>	<i>Miami University, Ohio</i>
<i>MZIPHE</i>	<i>The Miyazaki Prefectural Institute of Public Health and Environment</i>
<i>NADP/NTN</i>	<i>National Atmospheric Deposition Program/National Trends Network</i>
<i>NAIS</i>	<i>National Atlas Information Service of Canada</i>
<i>NAOM</i>	<i>National Astronomical Observatory, Mizusawa</i>
<i>NARA</i>	<i>National Archives and Records Administration</i>
<i>NASA/GSFC/ESD/NDRD</i>	<i>Natural Disaster Reference Database, Earth Sciences Directorate, NASA/GSFC</i>
<i>NASA/GSFC/HSB</i>	<i>Hydrological Sciences Branch, NASA/GSFC</i>
<i>NAVOCEANO</i>	<i>U.S. Naval Oceanographic Office</i>
<i>NAVY/NOAA JIC</i>	<i>Joint Ice Center</i>
<i>NAWDEX</i>	<i>National Water Data Exchange, USGS</i>
<i>NAWQA</i>	<i>National Water Quality Assessment Program</i>
<i>NBDNRE</i>	<i>New Brunswick Department of Natural Resources and Energy</i>
<i>NBDOE</i>	<i>New Brunswick Department of the Environment</i>
<i>NBGIC</i>	<i>New Brunswick Geographic Information Corporation</i>
<i>NBS/CPSU/OSU</i>	<i>Cooperative Park Studies Unit, Oregon State University</i>
<i>NBS/CPSU/UMINN</i>	<i>Cooperative Park Studies Unit, University of Minnesota</i>
<i>NBS/CPSU/UWASH</i>	<i>Cooperative Park Studies Unit, University of Washington</i>
<i>NBS/GNP</i>	<i>Glacier National Park Field Station</i>

Valids	Descriptions
<i>NBS/GNP/UMONT</i>	<i>Glacier National Park, University of Montana</i>
<i>NBS/NBII</i>	<i>National Biological Service National Biological Information Infrastructure</i>
<i>NBS/RMNP</i>	<i>Rocky Mountain National Park Field Station</i>
<i>NBS/SKCNP</i>	<i>Sequoia-Kings Canyon National Park Field Station</i>
<i>NBS/YNP</i>	<i>Yosemite National Park Field Station</i>
<i>NCAR</i>	<i>National Center for Atmospheric Research</i>
<i>NCAR/ACD</i>	<i>Atmospheric Chemistry Division, NCAR</i>
<i>NCAR/ATD</i>	<i>Atmospheric Technology Division, NCAR</i>
<i>NCAR/ATD/RDP</i>	<i>Atmospheric Technology Division, Research Data Program, NCAR</i>
<i>NCAR/DSS</i>	<i>Data Support Section, NCAR</i>
<i>NCAR/HAO</i>	<i>High Altitude Observatory, NCAR</i>
<i>NCAR/RAP</i>	<i>Research Application Program, NCAR</i>
<i>NCAR/SCD/MSS</i>	<i>Scientific Computing Division, Mass Storage System, NCAR</i>
<i>NCDEDCG</i>	<i>Nature Conservation Division Environment Department Chiba Prefectural Government</i>
<i>NCEDC</i>	<i>Northern California Earthquake Data Center</i>
<i>NCMR</i>	<i>National Centre For Marine Research</i>
<i>NCSU</i>	<i>North Carolina State University</i>
<i>NDSU</i>	<i>North Dakota State University</i>
<i>NEDRES</i>	<i>National Environmental Data Referral Service, NOAA</i>
<i>NERC/DU</i>	<i>National Environment Research Council, Dundee University</i>
<i>NERSC</i>	<i>Nansen Environmental and Remote Sensing Centre</i>
<i>NFLDDFA</i>	<i>Newfoundland Department of Forestry and Agriculture</i>
<i>NFLDDME</i>	<i>Newfoundland Department of Mines and Energy</i>
<i>NFLDDNR</i>	<i>Newfoundland Department of Natural Resources</i>
<i>NGRL</i>	<i>National Germplasm Resources Laboratory</i>
<i>NIBH</i>	<i>National Institute of Bioscience and Human Technology</i>
<i>NIED</i>	<i>National Research Institute for Earth Science and Disaster Prevention</i>
<i>NIES</i>	<i>National Institute for Environmental Studies</i>
<i>NILU</i>	<i>Norwegian Institute for Air Research</i>
<i>NIPR</i>	<i>National Institute of Polar Research</i>
<i>NIRS</i>	<i>National Institute of Radiological Sciences</i>
<i>NIST</i>	<i>National Institute of Standards and Technology</i>
<i>NMML</i>	<i>National Marine Mammal Laboratory</i>
<i>NMSU</i>	<i>New Mexico State University</i>
<i>NNHP</i>	<i>Nongame and Natural Heritage Program</i>
<i>NOAA-SAA</i>	<i>NOAA/NESDIS Satellite Active Archive</i>
<i>NOAA/CBO</i>	<i>NOAA Chesapeake Bay Office</i>
<i>NOAA/CS/NCOP</i>	<i>Coastal Ocean Program Office, NOAA</i>
<i>NOAA/CSC</i>	<i>NOAA Coastal Services Center</i>
<i>NOAA/NESDIS/ARL</i>	<i>Air Resources Laboratory, NOAA</i>
<i>NOAA/NESDIS/EIS</i>	<i>Environmental Information Services, NOAA</i>
<i>NOAA/NESDIS/NCDC</i>	<i>National Climatic Data Center, NOAA</i>

Valids	Descriptions
NOAA/NESDIS/NCDC/GSAA	NCDC Geostationary Satellite Active Archive, NOAA
NOAA/NESDIS/NCDC/OASIS	NCDC On-line Access and Service Information System, NOAA
NOAA/NESDIS/NCDC/OSCAR	NCDC On-line Satellite Catalog Access and Retrieval System, NOAA
NOAA/NESDIS/NCDC/SDSD	Satellite Data Services Division, NOAA
NOAA/NESDIS/NGDC	National Geophysical Data Center, NOAA
NOAA/NESDIS/NODC	National Oceanographic Data Center, NOAA
NOAA/NESDIS/NODC/LISD	Library Services Information Division, NOAA
NOAA/NESDIS/ORA/SAL/SIB	Satellite Applications Laboratory Sounding Implementation Branch, NOAA
NOAA/NESDIS/OSDPD	Office of Satellite Data Processing and Distribution, NOAA
NOAA/NMFS/NEFC	Northeast Fisheries Center, NOAA
NOAA/NMFS/OREI	Office of Research and Environmental Information, NOAA
NOAA/NMFS/SEFC	Southeast Fisheries Center, NOAA
NOAA/NMFS/SWFC	Southwest Fisheries Center, NOAA
NOAA/NMFS/SWFC/PFEG	Pacific Fisheries Environmental Group, NOAA
NOAA/NOS/ACC/ACD	Aeronautical Chart Division, NOAA
NOAA/NOS/NGS	National Geodetic Survey, NOAA
NOAA/NOS/OCS/HSD	Hydrographic Surveys Division, NOAA
NOAA/NOS/OCS/MCD	Marine Chart Division, NOAA
NOAA/NOS/OCS/OPSD	Oceanographics Products and Services Division, NOAA
NOAA/NOS/OES/MAID/CEOB	Coastal and Estuarine Oceanography, NOAA
NOAA/NOS/OES/MAID/OAB	Ocean Applications Branch, NOAA
NOAA/NOS/ORCA/CMBAD	Coastal Monitoring and Bioeffects Assessment Division, NOAA
NOAA/NOS/ORCA/SEA	Strategic Environmental Assessment Division, NOAA
NOAA/NWS/BUFFALO	Buffalo Forecast Office, NOAA
NOAA/NWS/LA	Los Angeles/Oxnard California, NOAA
NOAA/NWS/NDBC	National Data Buoy Center
NOAA/NWS/NMC	National Meteorological Center, NOAA
NOAA/NWS/NMC/NCEP/CPC	Climate Prediction Center, NOAA
NOAA/NWS/NMC/NCEP/NHC	National Hurricane Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/H PCC	High Plains Climate Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/M CC	Midwestern Climate Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/N RCC	Northeast Regional Climate Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/SE RCC	Southeast Regional Climate Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/SR CC	Southern Region Climate Center, NOAA
NOAA/NWS/NMC/NCEP/CPC/W RCC	Western Regional Climate Center, NOAA
NOAA/NWS/NOHRSC	National Operational Hydrologic Remote Sensing Center, NOAA
NOAA/NWS/OAX	Kansas City/Pleasant Hill Office, NOAA
NOAA/NWS/PTWC	Pacific Tsunami Warning Center, NOAA
NOAA/NWS/PUB	Pueblo Colorado Office, NOAA

Valids	Descriptions
NOAA/NWS/SALT LAKE	Salt Lake City, Utah Forecast Office, NOAA
NOAA/NWS/SAN FRANCISCO	San Francisco Bay Area, NOAA
NOAA/NWS/SIOUX FALLS	Sioux Falls South Dakota Forecast Office, NOAA
NOAA/NWS/WILMINGTON	Wilmington Ohio Forecast Office, NOAA
NOAA/NWS/WRH/CBRFC	Colorado Basin River Forecast Center
NOAA/OAR/AOML	Atlantic Oceanographic and Meteorological Laboratory, NOAA
NOAA/OAR/AOML/HRD	Hurricane Research Division, NOAA
NOAA/OAR/CMDL	Climate Monitoring Diagnostics Laboratory, NOAA
NOAA/OAR/CMDL/NOAH	Nitrous Oxide and Halocompounds Division, NOAA
NOAA/OAR/ERL/AL	Aeronomy Laboratory, NOAA
NOAA/OAR/ERL/ARL	Air Resources Laboratory, NOAA
NOAA/OAR/ERL/ARL/ASMD	Atmospheric Sciences Modeling Division, NOAA
NOAA/OAR/ERL/ARL/ATDD	Atmospheric Turbulence and Diffusion Division
NOAA/OAR/ERL/CDC	Climate Diagnostics Center, NOAA
NOAA/OAR/ERL/ETL	Environmental Technology Laboratory, NOAA
NOAA/OAR/ERL/FSL	Forecast Systems Laboratory, NOAA
NOAA/OAR/ERL/GLERL	Great Lakes Environmental Research Laboratory, NOAA
NOAA/OAR/ERL/NSSL	National Severe Storms Laboratory, NOAA
NOAA/OAR/ERL/SEL/SESC	Space Environment Laboratory, NOAA
NOAA/OAR/ERL/WPL	Wave Propagation Laboratory, NOAA
NOAA/OAR/PMEL	Pacific Marine Environmental Laboratory, NOAA
NOAA/OAR/PMEL/TAO	TAO Project Office, NOAA/PMEL
NOAA/OAR/WPL	Wave Propagation Laboratory, NOAA
NOD	Norsk Oseanografisk Datasenter
NODC/BULGARIA	National Oceanographic Data Center, Bulgaria
NODC/PAKISTAN	Pakistan National Oceanographic Data Centre
NPMC	National Plant Materials Center
NPRIHE	Niigata Prefectural Research Institute for Health and Environment
NPS	Naval Postgraduate School
NPS/NBS	National Park Service and National Biological Service
NRCS	Natural Resources Conservation Service
NRIFS	National Research Institute of Fisheries Science
NRL/MONTEREY	Naval Research Laboratory Monterey
NRSC	National Remote Sensing Centre
NSIDC	National Snow and Ice Data Center
NSIDC_DAAC	NSIDC Distributed Active Archive Center
NSF	National Science Foundation
NSO/KP	National Solar Observatories, Kitt Peak
NSO/SP	National Solar Observatories, Sacramento Peak
NSSDC	National Space Science Data Center, NASA
NTIS	National Technical Information Service
NTU	National Taiwan University

Valids	Descriptions
NWRC/BBO	National Wildlife Research Centre, Bird Banding Office
NWRC/CWS/EC	National Wildlife Research Centre, CWS, EC
OALS	Office of Arid Lands Studies, University of Arizona
OCEANIC	Ocean Information Center
OECD	Organization for Economic Cooperation and Development
OECD/IEA	OECD/International Energy Agency
OECD/IEA/GR	OECD/International Energy Agency/Germany-Austria-Switzerland
OECD/IEA/JP	OECD/International Energy Agency/Japan and the Far East Group
OECD/IEA/US	OECD/International Energy Agency/United States of America
OGI	Oregon Graduate Institute
OGS	Osservatorio Geofisico Sperimentale - Geofisica della Litosfera
ONE MADAGASCAR	Office National pour L'Environnement, Madagascar
OPIPH	Osaka Prefectural Institute of Public Health
ORNL	Oak Ridge National Laboratory
ORNL_DAAC	Oak Ridge National Laboratory Distributed Active Archive Center
ORSTOM	L'Institut Francais de Recherche Scientifique pour Developpement en Cooperation
OS	Ordnance Survey, UK National Mapping Agency
OSU - OHIO	Ohio State University
OSU - OREGON	Oregon State University
OSU/LTER	Oregon State University, H.J. Andrews LTER Site
PALEOMAP	PALEOMAP Project
PC/CH	Parks Canada, Canadian Heritage
PDREC	Pee Dee Research and Education Center
PDS-GEOSCIENCES NODE	Geosciences Node, Planetary Data System
PFC/FC	Pacific Forestry Centre/FC
PFFATUAT	Phytorn Facility, Fac. of Agriculture Tokyo Univ. of Agriculture and Technology
PI	Petroleum Information On-Line Services
PITT/PALEOMAG	University of Pittsburgh, Paleomagnetic Database Archive
PKDB	International Paleoclimate Database
PLANETA	Research and Production Association, Russia
PNFI/FC	Petawawa National Forest Institute, FC
PNRA	Italian Program for Antarctic Research
PSC	Plymouth State College
PSMSL	Permanent Service for Mean Sea Level
PSU	Pennsylvania State University
PSU/METO	Pennsylvania State University Meteorology Department
PSU/METO/FPDA	Pennsylvania State University Meteorology Department Field Project Data Archive
PU	Purdue University
RAE	Royal Aerospace Establishment
RAL	Rutherford Appleton Laboratories, UK
RAN/HYDRO	Royal Australian Navy, Hydrographic Office
RDC	Radar Data Center

Valids	Descriptions
<i>RESTEC</i>	<i>Remote Sensing Technology Center of Japan</i>
<i>RFF</i>	<i>Resources for the Future, Inc.</i>
<i>RHS</i>	<i>Regional Hydrometeorological Service</i>
<i>RIAMKU</i>	<i>Research for Applied Mechanics Kyushu University</i>
<i>RIDA</i>	<i>Rhode Island Department of Administration</i>
<i>RMDP</i>	<i>Rocky Mountain Digital Peaks</i>
<i>RS AU GHANA</i>	<i>Remote Sensing Applications Unit, University of Ghana</i>
<i>RSL/SUT</i>	<i>Remote Sensing Laboratory, Science University of Tokyo</i>
<i>RU</i>	<i>Rutgers University</i>
<i>SATOBSYS</i>	<i>Satellite Observing Systems</i>
<i>SCAR</i>	<i>Scientific Committee on Antarctic Research</i>
<i>SCDC/IDAHO</i>	<i>State Climate Data Center, Idaho</i>
<i>SCEC_DC</i>	<i>Southern California Earthquake Center Data Center</i>
<i>SDAC</i>	<i>Solar Data Analysis Center, NASA</i>
<i>SDAES</i>	<i>South Dakota Agricultural Experiment Station</i>
<i>SDCS</i>	<i>SAR Data Catalog System, JPL</i>
<i>SDSMT</i>	<i>South Dakota School of Mines and Technology</i>
<i>SEDAC</i>	<i>Socioeconomic Data and Applications Center</i>
<i>SEIMAC</i>	<i>Seimac Research Ltd.</i>
<i>SEL</i>	<i>Solar Environment Laboratory, NOAA</i>
<i>SFU</i>	<i>Simon Fraser University</i>
<i>SGE-SPAIN</i>	<i>Servicio Geografico del Ejercito (SGE), Ministerio de Defensa</i>
<i>SHIRSHOV</i>	<i>Shirshov Institute of Oceanology</i>
<i>SICORP</i>	<i>SPOT Image Corporation</i>
<i>SILVER PLATTER</i>	<i>Silver Platter Information</i>
<i>SI/GVP</i>	<i>Smithsonian Institution, Global Volcanism Program</i>
<i>SIO/C4</i>	<i>SIO Center for Clouds Chemistry and Climate</i>
<i>SIO/CCS</i>	<i>Scripps Institution of Oceanography, Center for Coastal Studies</i>
<i>SIO/GRD</i>	<i>Scripps Institution of Oceanography, Geological Research Division</i>
<i>SIO/JEDAC</i>	<i>Scripps Institution of Oceanography, Joint Environmental Data Analysis Center</i>
<i>SIO/MLRG</i>	<i>Scripps Institution of Oceanography, Marine Life Research Group</i>
<i>SIO/PORD</i>	<i>Scripps Institution of Oceanography, Physical Oceanography Research Division</i>
<i>SIO/SSF</i>	<i>Scripps Institution of Oceanography, Satellite Facility</i>
<i>SIU</i>	<i>Southern Illinois University</i>
<i>SKIS</i>	<i>Six Kingdom Inventory System</i>
<i>SMHI</i>	<i>Swedish Meteorological and Hydrological Institute</i>
<i>SMIPH</i>	<i>Sendai Municipal Institute of Public Health</i>
<i>SMM-DAC</i>	<i>Solar Maximum Mission Data Analysis Center</i>
<i>SNAES</i>	<i>Shikoku National Agricultural Experiment Station</i>
<i>SOED/EC</i>	<i>State of the Environment Directorate, EC</i>
<i>SPIPHES</i>	<i>Shizuoka Prefectural Institute of Public Health and Environmental Science</i>
<i>SPOT IMAGE</i>	

Valids	Descriptions
<i>SSC ESRANGE</i>	<i>Swedish Space Corporation, ESRANGE Satellite Station</i>
<i>SSC SATELLITBILD</i>	<i>Swedish Space Corporation, Satellitbild</i>
<i>SSC/NSSDC</i>	<i>Satellite Situation Center, NSSDC</i>
<i>SSCTR</i>	<i>Stennis Space Center, NASA</i>
<i>SSEOP</i>	<i>Space Shuttle Earth Obs. Phot. Database, NASA</i>
<i>STATSCAN</i>	<i>Statistics Canada, Geography Division</i>
<i>STB</i>	<i>Science and Technology Branch, Ontario Min. of Env. and Energy</i>
<i>STELNU</i>	<i>Solar Terrestrial Environment Lab, Nagoya Univ.</i>
<i>STORET</i>	<i>EPA Water Data STORage and RETrieval Data Base</i>
<i>SUCESF</i>	<i>SUNY College of Environmental Science/Forestry</i>
<i>SUCO</i>	<i>SUNY College at Oswego</i>
<i>SUNY/BUFFALO</i>	<i>SUNY College at Buffalo</i>
<i>SUNY/STONY BROOK</i>	<i>State University of New York - Stony Brook</i>
<i>SWRI</i>	<i>Southwest Research Institute</i>
<i>TAMU</i>	<i>Texas A&M University</i>
<i>TAMU/GERG</i>	<i>Texas A&M University, Geochemical & Environmental Research Group</i>
<i>TCIPO</i>	<i>TOGA COARE International Project Office</i>
<i>TER</i>	<i>Dept. of Earth Sciences, University of Siena</i>
<i>TNCMT</i>	<i>Toba National College of Maritime Technology</i>
<i>TNRIS</i>	<i>Texas Natural Resources Information System</i>
<i>TSDC</i>	<i>TOGA Subsurface Data Center</i>
<i>TU</i>	<i>Trent University</i>
<i>TVA/ERC</i>	<i>Tennessee Valley Authority/Environmental Research Center</i>
<i>UA - ARIZONA</i>	<i>University of Arizona</i>
<i>UAF/GDC</i>	<i>Univ. of Alaska Fairbanks, GeoData Center, Geophysical Institute</i>
<i>UAF/IMS</i>	<i>Univ. of Alaska Fairbanks, Institute of Marine Science</i>
<i>UAH/ATMOS</i>	<i>University of Alabama/Department of Atmospheric Sciences</i>
<i>UAH/ATMOS/ESSL</i>	<i>Earth System Science Laboratory, University of Alabama</i>
<i>UAS/MHI</i>	<i>Ukrainian Academy of Sciences/Marine Hydrophysical Institute (MHI)</i>
<i>UB/CRC</i>	<i>Universite de Bourgogne Centre de Recherches de Climatologie</i>
<i>UBIRM</i>	<i>University of Birmingham, UK</i>
<i>UC/CIRES</i>	<i>Univ. of Colorado, Cooperative Institute for Research in Environmental Sciences</i>
<i>UC/LTER</i>	<i>University of Colorado, Niwot Ridge LTER Site</i>
<i>UCAR/JOSS</i>	<i>University Corporation for Atmospheric Research Joint Office for Science Support</i>
<i>UCAR/NOAA/JOSS/CODIAC</i>	<i>UCAR JOSS Cooperative Distributed Interactive Atmospheric Catalog System</i>
<i>UCB</i>	<i>University of California, Berkeley</i>
<i>UCB/MP</i>	<i>U. of California, Berkeley, Museum of Paleontology</i>
<i>UCDAVIS</i>	<i>University of California, Davis</i>
<i>UCI</i>	<i>University of California, Irvine</i>
<i>UCLA/SPDC</i>	<i>UCLA Space Physics Data Center</i>
<i>UCR</i>	<i>University of California, Riverside</i>
<i>UCSB</i>	<i>University of California, Santa Barbara</i>

Valids	Descriptions
<i>UCSB/CRSEO</i>	<i>UCSB, Santa Barbara Center for Remote Sensing and Env. Optics</i>
<i>UDA/FS/SO-FIA</i>	<i>USDA Southern Forest Experiment Station, Forest Inventory and Analysis</i>
<i>UDEL/CCR</i>	<i>University of Delaware Center For Climate Research</i>
<i>UEL</i>	<i>University of East London</i>
<i>UF</i>	<i>University of Florida</i>
<i>UGA</i>	<i>University of Georgia</i>
<i>UGA/CLIM</i>	<i>University of Georgia, Office of the State Climatologist</i>
<i>UGA/LTER</i>	<i>University of Georgia, Institute of Ecology</i>
<i>UHI</i>	<i>University of Hawaii</i>
<i>UHI/METO</i>	<i>University of Hawaii Meteorology Department</i>
<i>UHI/SAC</i>	<i>University of Hawaii Shipboard ADCP Center</i>
<i>UHI/SOEST</i>	<i>University of Hawaii School of Ocean and Earth Science and Technology</i>
<i>UHI/SRSL</i>	<i>University of Hawaii, Satellite Remote Sensing Laboratory</i>
<i>UI</i>	<i>University of Illinois</i>
<i>UIA</i>	<i>University of Iowa</i>
<i>UIUC</i>	<i>University of Illinois, Urbana-Champaign</i>
<i>UK</i>	<i>University of Kentucky</i>
<i>UM - MICHIGAN</i>	<i>University of Michigan</i>
<i>UMASS/GEOL</i>	<i>University of Mass., Dept. of Geosciences</i>
<i>UMD/ASTRON</i>	<i>University of Maryland Astronomy Department</i>
<i>UMD/LGRSS</i>	<i>University of Maryland, Laboratory for Global Remote Sensing Studies</i>
<i>UMD/METO</i>	<i>University of Maryland Meteorology Dept.</i>
<i>UMD/METO/GSMDB</i>	<i>Global Soil Moisture Data Bank, University of Maryland, Dept. of Meteorology</i>
<i>UME</i>	<i>University of Maine</i>
<i>UMIAMI</i>	<i>University of Miami</i>
<i>UMIAMI/RSMAS</i>	<i>Rosentiel School of Marine and Atmospheric Science, University of Miami</i>
<i>UMN</i>	<i>University of Minnesota</i>
<i>UMN/LTER</i>	<i>Univ. of Minnesota, Department of Ecology</i>
<i>UMO</i>	<i>University of Missouri</i>
<i>UN/PUBLICATIONS</i>	<i>United Nations, Publications Office</i>
<i>UNAVCO</i>	<i>University NAVSTAR Consortium</i>
<i>UNE</i>	<i>University of Nebraska</i>
<i>UNEP</i>	<i>United Nations Environment Programme</i>
<i>UNEP/EAD/GRID-GENEVA</i>	<i>UNEP - Environment Assessment Division - Global Information Database - Geneva</i>
<i>UNEP/EAP-AP (GRID-BANGKOK)</i>	<i>UNEP - Environmental Assessment Programme for Asia and the Pacific</i>
<i>UNEP/GRID-ARENDAL</i>	<i>United Nations Environment Programme Global Resource Information Database</i>
<i>UNEP/GRID-GENEVA</i>	<i>United Nations Environment Programme Global Resource Information Database</i>
<i>UNEP/GRID-INPE</i>	<i>United Nations Environment Programme Global Resource Information Database - INPE</i>
<i>UNEP/GRID-NAIROBI</i>	<i>United Nations Environment Programme Global Resource Information Database</i>
<i>UNEP/GRID-PAC</i>	<i>UNEP - Global Resource Information Database - Programme Activity Centre</i>
<i>UNEP/GRID-TSUKUBA</i>	<i>UNEP / Global Resource Information Database - Tsukuba</i>

Valids	Descriptions
UNEP/GRID-WARSAW	UNEP - Global Resource Information Database - Warsaw - Environmental Info Centre
UNEP/HEM	United Nations Environment Programme, Harmonization of Environmental Measurement
UNESCO/MAB	Man and the Biosphere Program
UNFPA	United Nations Population Fund
UNIDATA	Unidata, NSF
UNI/ROMA	Universita di Roma La Sapienza, Dip. Fisica
UNMEX/EDAC	University of New Mexico Earth Data Analysis Center
UOK/OCS	University of Oklahoma, Oklahoma Climatological Survey
UOKLA	University of Oklahoma
UPR/TED	University of Puerto Rico
URI	University of Rhode Island
USAFETAC/OL-A	USAF Environmental Technical Applications Center, Operating Location-A
USAFETAC/SAFB	USAF Environmental Technical Applications Center, Scott AFB
USATEC	US Army Topographic Engineering Center
USCB	United States Census Bureau
USC/BARUCH/LTER	U. of South Carolina, Baruch Inst. for Marine Biology and Coastal Research
USDA	United States Department of Agriculture
USDA/ARS	Agricultural Research Service
USDA/ARS/NAL	National Agricultural Library
USDA/CSREES	Cooperative State Research, Education, and Extension Service, USDA
USDA/ERS	Economic Research Service
USDA/FS	Forest Service
USDA/LTER	USDA Forest Service, Forestry Sciences Laboratory, Durham, NH
USDA/NASS	National Agricultural Statistics Service
USDA/NRCS	Natural Resources Conservation Service
USDA/NRCS/NSSC	National Soil Survey Center
USDA/NRCS/WCC	Water & Climate Center
USDA/NRCS/WSR	World Soil Resources
USDA/NSTL	National Soil Tilth Laboratory, USDA
USDA/SCS/ALASKA	U.S. Soil Conservation Service, Alaska
USDA/SCS/NCG	National Cartography and GIS Center
USDOC	U.S. Department of Commerce
USF/DMS	University of South Florida, Department of Marine Sciences
USFWS/NWI	U.S. Fish and Wildlife Service, National Wetlands Inventory
USGPO	U.S. Government Printing Office
USGS	U.S. Geological Survey
USGS/BARD	USGS San Francisco Bay Area Regional Database
USGS/BRD	USGS Biological Resources Division
USGS/BRD/CBI	USGS Biological Resources Division, Center for Biological Informatics
USGS/BRD/LSC	USGS Biological Resources Division, Leetown Science Center
USGS/BRD/MSD	USGS Biological Resources Division, Midwest Science Center
USGS/BRD/NWHC	USGS Biological Resources Div., National Wildlife Health Center

Valid	Descriptions
USGS/BRD/PATUXENT	USGS Biological Resources Div., Patuxent Wildlife Res. Cntr.
USGS/BRD/PATUXENT/BBL	USGS Biological Resources Div., Patuxent Wildlife Res. Cntr., Bird Banding Lab.
USGS/BRD/PATUXENT/BBS	USGS Biological Resources Div., Patuxent Wildlife Res. Cntr., Bird Breeding Surv.
USGS/DB	Distribution Branch, Denver
USGS/EDC/ALASKA	EROS Data Center, Anchorage, AK
USGS/EDC/GLIS	USGS, EROS Data Center, Global Land Information System
USGS/ESIC/ANCHORAGE	Earth Science Information Center, Anchorage, Alaska
USGS/ESIC/D.C.	Earth Science Information Center, Washington, D.C.
USGS/ESIC/DENVER	Earth Science Information Center, Denver, Colorado
USGS/ESIC/LAKEWOOD	Earth Science Information Center, Lakewood/Denver, Colorado
USGS/ESIC/LOS ANGELES	Earth Science Information Center, Los Angeles, California
USGS/ESIC/MENLO PARK	Earth Science Information Center, Menlo Park, California
USGS/ESIC/RESTON	Earth Science Information Center, Reston, Virginia
USGS/ESIC/ROLLA	Earth Science Information Center, Rolla, Missouri
USGS/ESIC/SALT LAKE CITY	Earth Science Information Center, Salt Lake City, Utah
USGS/ESIC/SAN FRANCISCO	Earth Science Information Center, San Francisco, California
USGS/ESIC/SPOKANE	Earth Science Information Center, Spokane, Washington
USGS/ESIC/STENNIS	Earth Science Information Center, NASA Stennis Space Center, Mississippi
USGS/GD/ANCHORAGE	USGS, Geology Division, Anchorage, AK
USGS/GD/DENVER	USGS, Geology Division, Denver
USGS/GD/GCRP	USGS/Geology Division/Global Change Research Program
USGS/GD/GOLDEN	USGS, Geology Division, Golden, CO
USGS/GD/MENLO PARK	USGS, Geology Division, Menlo Park, CA
USGS/GD/RESTON	USGS, Geology Division, Reston, VA
USGS/GD/RESTON/WOODS HOLE	USGS Geology Division, Reston, VA., Woods Hole, MA
USGS/GLIS/RESTON	USGS/Global Land Information System, Reston, VA
USGS/ISD	Information Systems Division
USGS/NEIC/GOLDEN	USGS, National Earthquake Information Center, Golden, CO
USGS/NMD	USGS National Mapping Division
USGS/NMD/RESTON	National Mapping Division, Reston, VA
USGS/OFR	USGS Open File Reports Section
USGS/OFS	USGS Open File Services Section
USGS/WHFC	US Geological Survey, Woods Hole Field Center
USGS/WRD/ALASKA	USGS Water Resources Division, Anchorage, AK
USGS/WRD/RESTON	USGS Water Resources Division, Reston, VA
USGS/WRMGS	USGS Western Region Marine and Coastal Surveys
USSR/HYDRO	USSR Hydrographic Service, Research Oceanographic Centre
USU/DGER	Utah State University Department of Geography and Earth Resources
USU/UCC	Utah State University Utah Climate Center
US_WOCE	United States WOCE (World Ocean Circulation Experiment) Office
UTASMAN	University of Tasmania, Australia

Valids	Descriptions
<i>UTFSM</i>	<i>Universidad Tecnica Federico Santa Maria</i>
<i>UTOKYO/ORI</i>	<i>University of Tokyo, Ocean Research Institute</i>
<i>UTORONTO</i>	<i>University of Toronto</i>
<i>UUTAH</i>	<i>University of Utah Salt Lake City</i>
<i>UVA/LTER</i>	<i>University of Virginia, Department of Environmental Science</i>
<i>UVM</i>	<i>University of Vermont</i>
<i>UWA</i>	<i>University of Washington</i>
<i>UWA/GEOPHYS</i>	<i>University of Washington, Geophysics Program</i>
<i>UWA/PSC</i>	<i>University of Washington/Polar Science Center</i>
<i>UWI</i>	<i>University of Wisconsin</i>
<i>UWI/LTER</i>	<i>University of Wisconsin-Madison, Department of Limnology</i>
<i>UWI/MADISON/IES/CCR</i>	<i>U. Wisconsin Institute for Environmental Studies, Center for Climatic Research</i>
<i>UWI/MIL</i>	<i>University of Wisconsin-Milwaukee</i>
<i>UWI/SSEC</i>	<i>University of Wisconsin, Space Science and Engineering Center</i>
<i>VNIIGMI/WDC</i>	<i>All Union Research Institute of Hydrometeorological Information</i>
<i>VNIRO</i>	<i>All-Union Research Institute for Marine Fishing and Oceanography</i>
<i>VPI</i>	<i>Virginia Polytechnic Institute</i>
<i>VT/ANR</i>	<i>Vermont Agency of Natural Resources</i>
<i>VT/ANR/CGI</i>	<i>Vermont Agency of Natural Resources/Center for Geographic Information</i>
<i>VT/DEC</i>	<i>Vermont Department of Environmental Conservation</i>
<i>VUW</i>	<i>Victoria University Wellington, New Zealand</i>
<i>WATSTORE</i>	<i>National Water Data Storage and Retrieval System, USGS</i>
<i>WCMC</i>	<i>World Conservation Monitoring Centre</i>
<i>WDAI</i>	<i>WeatherDisc Associates, Inc.</i>
<i>WDC-A/GLACIOLOGY</i>	<i>World Data Center-A for Glaciology</i>
<i>WCC-A/HUMAN</i>	<i>World Data Center-A for Human Interactions in the Environment</i>
<i>WDC-A/MGG</i>	<i>World Data Center-A for Marine Geology and Geophysics</i>
<i>WDC-A/METEOROLOGY</i>	<i>World Data Center-A for Meteorology</i>
<i>WDC-A/OCEANOGRAPHY</i>	<i>World Data Center-A for Oceanography</i>
<i>WDC-A/PALEOCLIMATOLOGY</i>	<i>World Data Center-A for Paleoclimatology</i>
<i>WDC-A/REMOTE</i>	<i>World Data Center-A for Remotely Sensed Land Data</i>
<i>WDC-A/R&S</i>	<i>World Data Center-A Rockets and Satellites, NASA</i>
<i>WDC-A/ROTATION</i>	<i>World Data Center-A for Rotation of the Earth</i>
<i>WDC-A/SEISMOLOGY</i>	<i>World Data Center-A for Seismology</i>
<i>WDC-A/SEG</i>	<i>World Data Center-A for Solid Earth Geophysics</i>
<i>WDC-A/STP</i>	<i>World Data Center-A for Solar-Terrestrial Physics</i>
<i>WDC-A/TRACE</i>	<i>World Data Center-A for Trace Gases</i>
<i>WDC-B</i>	<i>World Data Center-B</i>
<i>WDC-B/MG&G</i>	<i>World Data Center-B for Marine Geology and Geophysics</i>
<i>WDC-B/METEOROLOGY</i>	<i>World Data Center-B for Meteorology</i>
<i>WDC-B SEP</i>	<i>World Data Center B for Solid Earth Physics</i>
<i>WDC-B/RIHMI</i>	<i>World Data Center-B Research Institute of Hydrometeorological Information</i>

Valids	Descriptions
WDC-B/R&S	World Data Center-B for Rockets and Satellites
WDC-B/ROTATION	World Data Center-B for Rotation of the Earth
WDC-B1/OCEANOGRAPHY	World Data Center-B1 for Oceanography
WDC-B2/SEG	World Data Center-B2 for Solid Earth Geophysics
WDC-B2/STP	World Data Center-B2 for Solar-Terrestrial Physics
WDC-C1/TIDES	World Data Center-C1 for Earth Tides
WDC-C1/GEOMAGNETISM	World Data Center-C1 for Geomagnetism
WDC-C1/GLACIOLOGY	World Data Center-C1 for Glaciology
WDC-C1/CRUSTAL	World Data Center-C1 for Recent Crustal Movements
WDC-C1/SOILS	World Data Center-C1 for Soils
WDC-C1/SOLAR	World Data Center-C1 for Solar Activity
WDC-C1/STP	World Data Center-C1 for Solar-Terrestrial Physics
WDC-C1/SUNSPOTS	World Data Center-C1 for Sunspot Index
WDC-C2/AIRGLOW	World Data Center-C2 for Airglow
WDC-C2/AURORA	World Data Center-C2 for Aurora
WDC-C2/COSMICRAYS	World Data Center-C2 for Cosmic Rays
WDC-C2/GEOMAGNETISM	World Data Center-C2 for Geomagnetism
WDC-C2/IONOSPHERE	World Data Center-C2 for Ionosphere
WDC-C2/NUCLEAR	World Data Center-C2 for Nuclear Radiation
WDC-C2/SOLARRADIO	World Data Center-C2 for Solar Radio Emissions
WDC-C2/STA	World Data Center-C2 for Solar-Terrestrial Activity
WDC-D/ASTRONOMY	World Data Center-D for Astronomy
WDC-D/GEOLOGY	World Data Center-D for Geology
WDC-D/GEOPHYSICS	World Data Center-D for Geophysics
WDC-D/GLACIOLOGY	World Data Center-D for Glaciology and Geocryology
WDC-D/METEOROLOGY	World Data Center-D for Meteorology
WDC-D/OCEANOGRAPHY	World Data Center-D for Oceanography
WDC-D/RR&E	World Data Center-D for Renewable Resources & Environment
WDC-D/SEISMOLOGY	World Data Center-D for Seismology
WDC-D/SPACE	World Data Center for Space Sciences
WDCGG	World Data Center for Greenhouse Gases
WFF/OSB	Wallops Flight Facility Observational Science Branch, NASA
WHOI	Woods Hole Oceanographic Institution
WHP_SAC	WOCE Hydrographic Programme Special Analysis Centre
WLDELFT	Delft Hydraulics
WMO	World Meteorological Organization
WODC	World Ozone Data Center
WPRCEPH	Wakayama Prefectural Research Center of Environment and Public Health
WRD/EC	Water Resources Directorate, EC
WRI	World Resources Institute
WSU/IAREC	Irrigated Agriculture Research and Extension Center
YCMT	Yuge National College of Maritime Technology

Validates	Descriptions
YNU	<i>Yokohama National University</i>
YPRIH	<i>Yamaguchi Prefectural Research Institute of Health</i>
ZA	<i>Zentralarchiv fuer empirische Socialforschung der Universitat zu Koeln</i>
ZEDX	<i>ZEDX Inc.</i>
ZUDIS	<i>Central Environmental Data Information System</i>

3.12 GeoSpatialForm

Description: A characterisation of the type of product, e.g. satellite image or map.

Sources: [FGDC *Geospatial Data Presentation Form*]

Default Valid:

Validates
<i>atlas</i>
<i>diagram</i>
<i>globe</i>
<i>map</i>
<i>model</i>
<i>profile</i>
<i>remote-sensing image</i>
<i>section</i>
<i>view</i>

3.13 GridCoordinateSystemName

Description: A plane-rectangular coordinate system usually based on, and mathematically adjusted to, a map projection so that geographic positions can be readily transformed to and from plane coordinates.

Sources: [FGDC *Grid Coordinate System Name*]

Default Valid:

Validates
<i>Universal Transverse Mercator</i>
<i>Universal Polar Stereographic</i>
<i>State Plane Coordinate System 1927</i>
<i>State Plane Coordinate System 1983</i>
<i>ARC Coordinate System</i>
<i>Other Grid System</i>

3.14 GroupId

Description: Identification of the user groups having access to specific options, e.g. for product order options may differ for each user group.

Sources: CIP defined

Default Valid:

Valid
Anonymous

3.15 InstrumentIdentifier/InstrumentName

Description (InstrumentIdentifier): A short identifier (acronym) for the instrument.

Description (InstrumentName): A text string (i.e. not an acronym) defining the instrument.

Sources: [GCMD Sensor]

Default Valid:

InstrumentIdentifier Valid	InstrumentNameValid
AAS	Atomic Absorption Spectrometer
AATSR	Advanced Along-Track Scanning Radiometer
ACCELEROGRAPHS	
ACCELEROMETERS	
ACOUSTIC RADAR	
ACOUSTIC SOUNDERS	
ACRIM II	Active Cavity Radiometer Irradiance Monitor II
ACRIM	Active Cavity Radiometer Irradiance Monitor
ACTINOMETER	Radiation Thermocouple Actinometer
ADA	Atmospheric Density Accelerometer
ADCP	Acoustic Doppler Current Profiler
AEM	Airborne Electromagnetic Profiler
AEPI	Atmospheric Emissions Photometric Imaging
AEROVANES	
AEROSOL COLLECTORS	
AEROSOL MONITOR	
AEROSOL/CLOUD PARTICLE SIZER	
AERS	Atmospheric/Emitted Radiation Sensor
AES	Atmospheric Emission Spectrometer
AETHAELOMETER	
AIRBORNE TRACKING SUNPHOTOMETER	
AIRGLOW/AURORA IMAGER	
AIRGUN ARRAYS	
AIRS	Atmospheric Infrared Sounder

InstrumentIdentifier Valids	InstrumentNameValids
AIRSAR	Airborne Synthetic Aperture Radar
AIS	Arizona Imager Spectrograph
ALAE	Atmospheric Lyman-Alpha Emissions
ALT (TOPEX)	TOPEX Radar Altimeter
ALTIMETERS	
AMI	Active Microwave Instrument
AMMR	Airborne Multichannel Microwave Radiometer
AMMS	Advanced Microwave Moisture Sounder
AMPR	Advanced Microwave Precipitation Radiometer
AMPTE/IRM MAGNETOMETER	AMPTE/IRM Three-axis Fluxgate Magnetometer
AMSU	Advanced Microwave Sounding Unit
ANEMOMETERS	
ANEROID PRESSURE SENSOR	
AOLFL	Airborne Oceanographic Lidar Fluorosensor
ARMAR	Airborne Rain Mapping Radar
ARWS	Automatic Remote Weather Station
AS	Absorption Spectrophotometry
ASAR	Advanced Synthetic Aperature Radar
ASAS	Advanced Solid-state Array Spectroradiometer
ASC	All-Sky Camera
ASOS	Automated Surface Observing System
ASS	Atomic Absorption Spectrophotometry
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
ATM	Airborne Topographic Mapper
ATMOS	Atmospheric Trace Molecule Spectroscopy
ATSR	Along Track Scanning Radiometer and Microwave Sounder
AUTOANALYZER	
AUTOMATIC ANALYZER	
AVHRR	Advanced Very High Resolution Radiometer
AVIRIS	Airborne Visible and Infrared Imaging Spectrometer
AVNIR	Advanced Visible and Near-Infrared Radiometer
AWOS	Automated Weather Observing System
AWQT	Apparatus for Water Quality Test
BAROMETERS	
BATHYPHOTOMETER	
BATHYTHERMOGRAPHS	
BATSE	Burst And Transient Source Experiment
BBHSR	Broad Spectral Bandpass Hemispherical Solar Radiometer
BCS	Bragg Crystal Spectrometer
BEDLOAD SENSORS	
BIMS	Bennett Ion-Mass Spectrometer
BL	Balance

InstrumentIdentifier Valids	InstrumentNameValids
<i>BLIP</i>	<i>Boundary Layer Instrument Package</i>
<i>BOLOMETERS</i>	
<i>BOPS</i>	<i>Bio Optical Profiling System</i>
<i>BOTTOM PRESSURE GAUGES</i>	
<i>BRTS</i>	<i>Background Radiometric Temperature Sensors</i>
<i>BUV</i>	<i>Backscatter Ultraviolet</i>
<i>C/P</i>	<i>Coronagraph/Polarimeter</i>
<i>CAMERAS</i>	
<i>CAMI</i>	<i>Carbon Monoxide Automatic Measuring Instrument</i>
<i>CASI</i>	<i>Compact Airborne Spectrographic Imager</i>
<i>CEILOMETERS</i>	
<i>CEP</i>	<i>Cylindrical Electrostatic Probe</i>
<i>CERES</i>	<i>Clouds and Earth's Radiant Energy System</i>
<i>CHN ANALYZERS</i>	<i>Carbon, Hydrogen, Nitrogen Analyzers</i>
<i>CLAES</i>	<i>Cryogenic Limb Array Etalon Spectrometer</i>
<i>CLASS</i>	<i>C-LORAN Atmospheric Sounding System</i>
<i>CLOUD LIQUID WATER PROBE</i>	
<i>CLOUD TOP SPECTROMETER</i>	
<i>COLSPEC</i>	<i>Correlation Spectrometer</i>
<i>CNC</i>	<i>Condensation Nuclei Counter</i>
<i>CO2 ANALYZERS</i>	
<i>COMPASSES</i>	
<i>CONDUCTIVITY METERS</i>	
<i>CORING DEVICES</i>	
<i>CORONAGRAPHS</i>	
<i>COULOMETERS</i>	
<i>CRWVA</i>	<i>Combined Recording Wind Vane Anemograph</i>
<i>CSR</i>	<i>Compressive Strength Recorder</i>
<i>C-SCAT</i>	<i>C-Band Scatterometer</i>
<i>CTD</i>	<i>Conductivity, Temperature, Depth</i>
<i>CURRENT METERS</i>	
<i>CZCS</i>	<i>Coastal Zone Color Scanner</i>
<i>DAEDALUS TMS</i>	<i>Daedalus Thematic Mapper Simulator</i>
<i>DCP</i>	<i>Data Collection Platform</i>
<i>DENDROMETERS</i>	
<i>DEWPOINT HYDROMETERS</i>	
<i>DIAL</i>	<i>Differential Absorption Lidar</i>
<i>DIFFERENTIAL MOBILITY ANALYZERS</i>	
<i>DIGITIZER</i>	
<i>DOAS</i>	<i>Differential Optical Absorption Spectrometers</i>
<i>DOBSON SPECTROPHOTOMETERS</i>	
<i>DOPPLER BEACONS</i>	

InstrumentIdentifier Valids	InstrumentNameValids
DOPPLER RADAR	
DORIS	<i>Doppler Orbitography and Radiopositioning Integrated by Satellite</i>
DREDGING DEVICES	
DRIFTING BUOYS	
DROGUES	
DROPSONDES	
DROPWINDSONDES	
DRY DEPOSITION COLLECTORS	
EB SPECTROMETER	<i>Ebert-Fastie Spectrometer</i>
ECHO SOUNDERS	
EDDY CORRELATION DEVICES	
EDM	<i>Electromagnetic Direction Meter</i>
EGC	<i>Electron Gas Chromatograph</i>
ELECTROSTATIC ANALYZERS	
ELDORA	<i>Electra Doppler Radar</i>
ELECTRON MICROPROBES	
EQUILIBRATORS	
ERB	<i>Earth Radiation Budget</i>
ERBE	<i>Earth Radiation Budget Experiment</i>
ERS WIND SCATTEROMETER	
ESMR	<i>Electronic Scanning Microwave Radiometer</i>
ESUM	<i>Extreme Solar UV Monitor</i>
EUV SPECTROMETER	<i>Extreme UV Spectrometer</i>
EUVS	<i>Solar Extreme Ultraviolet Spectrophotometer</i>
FILTERABLE DEPOSIT JAR SAMPLER	
FLAME-IONIZATION DETECTOR	
FLASKS	
FLUOROMETERS	
FLUXGATE MAGNETOMETERS	
FOURIER TRANSFORM SPECTROMETERS	
FPI	<i>Fabry-Perot Interferometer</i>
FS	<i>Fluorescence Spectroscopy</i>
FSI	<i>Filter Sampling Instrument</i>
FTIR SPECTROMETER	<i>Fourier Transform Infrared Spectrometer</i>
GAMMA RADIATION DETECTOR	
GAMMA RAY SPECTROMETERS	
GAS CHROMATOGRAPHS	
GAS CORRELATION FILTERS	
GEK	<i>Geomagnetic Electrokinetographs</i>
GEOPHONES	
GLAS	<i>Geoscience Laser Altimeter System</i>
GLORIA	<i>Geological Long-Range Inclined ASDIC</i>

InstrumentIdentifier Valids	InstrumentNameValids
GOES IMAGER	
GOME	Global Ozone Monitoring Experiment
GOMOS	Global Ozone Monitoring by Occultation of Stars
GONG INSTRUMENT	Global Oscillation Network Group Instrument
GONG NETWORK	Global Oscillation Network Group Network
GPS RECEIVERS	
GPS	Global Positioning System
GRAB SAMPLERS	
GRAVIMETERS	
GREEN CORONAGRAPH	
GRILLE	Grille Spectrometer
GROUND WATER LEVEL GAUGES	
GUST PROBES	
GYROS	
HALOE	Halogen Occultation Experiment
HAMI	Hydrocarbon Automatic Measuring Instrument
HARD X-RAY MONITOR	
HCMR	Heat Capacity Mapping Radiometer
HELIOGRAPHS	
HEPAD	High Energy Proton and Alpha Detector
HFOVR	Hemispherical Field of View Radiometer
HIRDLS	High-Resolution Dynamics Limb Sounder
HIRS	High Resolution Infrared Radiation Sounder
HIRS/2	High Resolution Infrared Radiation Sounder/2
HIS	High Resolution Interferometer Sounder
HPGE	Hyperpure Germanium
HPLC	High-Performance Liquid Chromatograph
HRDI	High Resolution Doppler Imager
HRIR	High-Resolution Infrared Radiometer
HRR	High Resolution Radiometer
HRTS	High Resolution Telescope and Spectrograph
HRV	High Resolution Visible Imaging System
HSRL	High Spectral Resolution Lidar
HUMIDITY TRANSDUCERS	
HVAS	High Volume Air Sampler
HXIS	Hard X-ray Imaging Spectrometer
HXRBS	Hard X-ray Burst Spectrometer
HXT	Hard X-ray Telescope
HYDROPHONES	
HYGROMETERS	
HYGROTHERMOGRAPHS	
HYPSONETERS	

InstrumentIdentifier Valids	InstrumentNameValids
ICE AUGERS	
ICE STRESS SENSORS	
IDM	<i>Ion Drift Meter</i>
IES	<i>Inverted Echo Sounders</i>
IKAR	<i>Multichannel Microwave Radiometric System</i>
ILAS	<i>Improved Limb Atmospheric Spectrometer</i>
IMAGING RADAR SYSTEMS	<i>Imaging Radar Systems, Real and Synthetic Aperture</i>
IMAGING RADIOMETERS	
IMG	<i>Interferometric Monitor for Greenhouse Gases</i>
INCLINOMETERS	
INCOHERENT SCATTER RADAR	
INFRARED RADIOMETERS	
INFRARED THERMOMETERS	
INFRASONIC MICROPHONES	
INS	<i>Inertial Navigation System</i>
INTERFEROMETERS	
ION CHROMATOGRAPHS	
IONIZATION CHAMBER	
IONIZATION PRESSURE GAUGES	
IONOZONDES	
IRGA	<i>Infrared Gas Analyzers</i>
IRIS	<i>Infrared Interferometer Spectrometer</i>
IRS	<i>Infrared Radiometer/Spectrometer</i>
ISAMS	<i>Improved Stratospheric And Mesospheric Sounder</i>
ISO	<i>Imaging Spectrometric Observatory</i>
ISS	<i>Integrated Sounding System</i>
K-LINE CCD/SOLAR OSCILLATIONS	
KNOLLENBERG PROBE	
LAND SUBSIDENCE GAUGES	
LASER REFLECTOR	
LASER SPECTROMETER	
LASER TRACKING REFLECTOR	
LASERS	<i>Light Amplification by Stimulated Emission of Radiation</i>
LBLSC	<i>Low Background Liquid Scintillation Counter</i>
LEED	<i>Low Energy Electron Detectors</i>
LFC	<i>Large Format Camera</i>
LICOR GAS EXCHANGE SYSTEM	
LICOR INTEGRATING SPHERE	
LICOR LEAF AREA METER	
LICOR PLANT CANOPY ANALYZER	
LICOR QUANTUM SENSOR	
LICOR SOIL GAS CHAMBER	

InstrumentIdentifier Valids	InstrumentNameValids
LIDAR	Light Detection and Ranging
LIMS	Limb Infrared Monitor of the Stratosphere
LIP	Lightning Instrument Package
LIS	Lightning Imaging Sensor
LLTV	Low Light Level TV
LONG STREAMERS	
LOPC-PMS	Laser Optical Particle Counter
LORAN	Long Range Navigation
LPSP	Multichannel High Resolution UV and Visible Spectrometer
LRA	Laser Retroreflector Array
LRGM	Lacoste-Romberg Gravity Meter
LRR	Laser Retro-Reflector
LYMAN-ALPHA PHOTOMETER	
LYSIMETERS	
MAGNETOGRAPHS	
MAGNETOMETERS	
MAGNETO OPTICAL FILTER	
MAGVAR	Magnetic Variometer
MAPS	Measurement of Air Pollution from Satellite
MARK IV INTERFEROMETER	
MAS	MODIS Airborne Simulator
MAS/ATLAS	Millimeter-wave Atmospheric Sounder
MASP	Mobile Automatic Scanning Photometer
MASS SPECTROMETERS	
MBT	Mechanical Bathythermographs
MEIS	Multispectral Electro-optical Imaging Sensor
MEPAD	Medium Energy Proton and Alpha Detector
MERIS	Medium Resolution Imaging Spectrometer
MESA	Miniature Electrostatic Analyzer
MESSR	Multispectral Electronic Self-Scanning Radiometer
MFR	Multichannel Flux Radiometer
MFRSR	Multifilter Rotating Shadowband Radiometer and Broadband Pyranometer
MHS	Microwave Humidity Sounder
MICHELSON INTERFEROMETER	
MICROBAROGRAPHS	
MICROSCOPES	
MICROWAVE RADIOMETER	
MIMR	Multifrequency Imaging Microwave Radiometer
MIMS	Magnetic Ion-Mass Spectrometer
MINARAD RST-10	
MIPAS	Michelson Interferometer for Passive Atmospheric Sounding

InstrumentIdentifier Valids	InstrumentNameValids
<i>MIR</i>	<i>Millimeter Imaging Radiometer</i>
<i>MISR</i>	<i>Multi-Angle Imaging SpectroRadiometer</i>
<i>MLA</i>	<i>Multi-Linear Array</i>
<i>MLS</i>	<i>Microwave Limb Sounder</i>
<i>MMR</i>	<i>Modular Multiband Radiometer</i>
<i>MMS</i>	<i>Meteorological Measurement System</i>
<i>MOBLAS</i>	<i>Mobile Laser Systems</i>
<i>MOCNESS</i>	<i>MOCNESS Plankton Net</i>
<i>MODIS AIRBORNE SIMULATOR</i>	
<i>MODIS</i>	<i>Moderate-Resolution Imaging Spectroradiometer</i>
<i>MOMS-01</i>	<i>Modular Optoelectronic Multispectral Scanner</i>
<i>MOMS-02</i>	<i>Modular Optoelectronic Multispectral Stereo Scanner</i>
<i>MONOCHROMATORS</i>	
<i>MOP VIS/IR</i>	<i>MOP Imaging Radiometer</i>
<i>MOPITT</i>	<i>Measurement of Pollution in the Troposphere</i>
<i>MRIR</i>	<i>Medium-Resolution Infrared Radiometer</i>
<i>MSBSP</i>	<i>Multi-Spectral Band Sun Photometer</i>
<i>MSFC VECTOR MAGNETOGRAPH</i>	
<i>MSIR</i>	<i>Multispectral Imaging Radiometer</i>
<i>MSR</i>	<i>Microwave Scanning Radiometer</i>
<i>MSS</i>	<i>Multispectral Scanner</i>
<i>MSU</i>	<i>Microwave Sounding Unit</i>
<i>MSU-E</i>	<i>Multichannel High Resolution Electronic Scanner</i>
<i>MSU-SK</i>	<i>Multichannel Middle Resolution Conical Scanner</i>
<i>MULTICHANNEL FILTER RADIOMETERS</i>	
<i>MWA</i>	<i>Multiple Water Analyzer</i>
<i>NACE</i>	<i>Neutral Atmosphere Composition Experiment</i>
<i>NANSEN BOTTLES</i>	<i>Nansen Water Sampling Bottles</i>
<i>NATE</i>	<i>Neutral Atmosphere Temperature Experiment</i>
<i>NDIR GAS ANALYZER</i>	<i>Nondispersive Infrared Gas Analyzer</i>
<i>NEAR-INFRARED SPECTROMETER</i>	
<i>NEPHELOMETERS</i>	
<i>NEUTRON MONITORS</i>	
<i>NEUTRON PROBE</i>	
<i>NEXRAD</i>	<i>NEXt Generation RADar</i>
<i>NFOVR</i>	<i>Narrow Field of View Radiometer</i>
<i>NISKIN BOTTLES</i>	
<i>NMLR</i>	<i>Nebraska Multiband Leaf Radiometer</i>
<i>NOMI</i>	<i>Nitrogen Oxide Measuring Instrument</i>
<i>NS-001 TMS</i>	<i>NS-001 Thematic Mapper Simulator</i>
<i>NSCAT</i>	<i>NASA Scatterometer</i>
<i>NUCLEAR PRECESSION MAGNETOMETER</i>	

InstrumentIdentifier Validates	InstrumentNameValidates
<i>OAMI</i>	<i>Oxidants Automatic Measuring Instrument</i>
<i>OCE</i>	<i>Ocean Color Experiment</i>
<i>OCPS</i>	<i>Orbiter Camera Payload System</i>
<i>OCTS</i>	<i>Ocean Color and Temperature Scanner</i>
<i>OLS</i>	<i>Operational Linescan System</i>
<i>OMEGASONDE</i>	
<i>OMI</i>	<i>Ozone Measuring Instrument</i>
<i>OPTICAL BEACON</i>	
<i>OPTICAL TELESCOPES</i>	
<i>OPTICAL TRACKING</i>	
<i>ORG</i>	<i>Optical Rain Gauge</i>
<i>OSMOMETERS</i>	
<i>OSS</i>	<i>Open-Source Neutral Mass Spectrometer</i>
<i>OTD</i>	<i>Optical Transient Detector</i>
<i>OXYGEN ANALYZERS</i>	
<i>OXYGEN METERS</i>	
<i>OZONE DETECTORS</i>	
<i>OZONE MONITORS</i>	
<i>OZONEMETERS</i>	
<i>OZONESONDES</i>	
<i>P-SYSTEM</i>	<i>High Pressure Gas Sampling System</i>
<i>PAM</i>	<i>Portable Automated Mesonet</i>
<i>PARTICLE DETECTORS</i>	
<i>PARTICLE SPECTROMETERS</i>	
<i>PASSIVE OPTICAL TRACKING</i>	
<i>PCASP</i>	<i>Passive-Cavity Aerosol Spectrometer Probe</i>
<i>PEM</i>	<i>Particle Environment Monitor</i>
<i>PENETROMETERS</i>	
<i>PERMEAMETERS</i>	
<i>PES</i>	<i>Photoelectron Spectrometer</i>
<i>PH METERS</i>	
<i>PHASE CONTRAST MICROSCOPES</i>	
<i>PHOTOMETERS</i>	
<i>PHOTOSYNTHESIS CHAMBER</i>	
<i>PIEZOMETERS</i>	
<i>PLA</i>	<i>Panchromatic Linear Array</i>
<i>PLANKTON NETS</i>	
<i>PLANT STRESS MONITOR</i>	
<i>PMS</i>	<i>Particle Measuring System</i>
<i>POLARIMETERS</i>	
<i>POLDER</i>	<i>Polarization/Directionality of the Earth's Reflectance</i>
<i>PORTOS</i>	<i>Radiometer Hyper-frequency Multi-frequency</i>

InstrumentIdentifier Valids	InstrumentNameValids
PRARE	Precise Range and Range-Rate Equipment
PRESSURE GAUGES	
PRESSURE JUMP DETECTOR	
PRESSURE TRANSDUCERS	
PROBES	
PROFILERS	
PROFS	Program for Regional Observing and Forecast Systems Mesonet
PROTON MAGNETOMETER	
PRT	Precision Radiation Thermometers
PSYCHROMETERS	
PTGA	Propeller Type Generating Anemovane
PYRANOGRAPHS	
PYRANOMETERS	
PYRGEOMETERS	
PYRHELIOMETERS	
PYRRADIOMETERS	
QUARTZ CRYSTAL THERMOMETER	
RA	ERS Radar Altimeter
RA-2	Radar Altimeter-2
RAD GAUGE	Ram Atmosphere Density Gauge
RADAR ALTIMETERS	
RADAR ECHO SOUNDERS	
RADAR	Radio Detection and Ranging
RADIO BURST RECEIVERS	
RADIO TELESCOPES	
RADIO TRANSMITTERS	
RADIO TRANSPONDERS	
RADIOMETERS	
RADIOSONDES	
RAIN GAUGES	
RAMS	Radiation Measurement System
RASS	Radio Acoustic Sounding System
RAWINSONDES	
RBV	Return Beam Vidicon
RED CORONAGRAPH	
RF ANTENNA	
RIOMETER	Relative Ionospheric Opacity Meter
RIS	Retroreflector in Space
ROCK CORERS	
ROCKETSONDES	
ROSEMOUNT PRESSURE GAUGE	
RPA	Retarding Potential Analyzer

InstrumentIdentifier Valids	InstrumentNameValids
<i>RRS</i>	<i>Reflected Radiation Sensor</i>
<i>RT</i>	<i>Reversing Thermometer</i>
<i>SAGE I</i>	<i>Stratospheric Aerosol and Gas Experiment I</i>
<i>SAGE II</i>	<i>Stratospheric Aerosol and Gas Experiment II</i>
<i>SAGE III</i>	<i>Stratospheric Aerosol and Gas Experiment III</i>
<i>SALINOMETERS</i>	
<i>SAMI</i>	<i>SO2 Automatic Measuring Instrument</i>
<i>SAMS</i>	<i>Stratospheric and Mesospheric Sounder</i>
<i>SAR</i>	<i>Synthetic Aperture Radar</i>
<i>SASS</i>	<i>SEASAT-A Scatterometer System</i>
<i>SBT</i>	<i>Select-Level Bathythermographs</i>
<i>SBUV</i>	<i>Solar Backscatter Ultraviolet</i>
<i>SBUV2</i>	<i>Solar Backscatter Ultraviolet/2</i>
<i>SCA</i>	<i>Spatial Coordinate Apparatus</i>
<i>SCANNING ELECTRON MICROSCOPES</i>	
<i>SCARAB</i>	<i>The Scanner for Radiation Budget</i>
<i>SCATTEROMETERS</i>	
<i>SCHOLANDER PRESSURE CHAMBER</i>	
<i>SCIAMACHY</i>	<i>Scanning Imaging Absorption Spectrometer for Atmospheric Chartography</i>
<i>SCINTILLATION COUNTERS</i>	
<i>SCR</i>	<i>Selective Chopper Radiometer</i>
<i>SCRIPPS SHELF AND SHORE SYSTEM</i>	
<i>SDPTR</i>	<i>Satellite Doppler Positioning Transit Receivers</i>
<i>SDTA</i>	<i>Satellite Drag Tracking Apparatus</i>
<i>SEASOAR</i>	
<i>SEAWIFS</i>	<i>Sea-Viewing Wide Field-of-View Sensor</i>
<i>SECCHI DISKS</i>	
<i>SEDIMENT CORERS</i>	
<i>SEDIMENT METERS</i>	
<i>SEDIMENT TRAPS</i>	
<i>SEISMIC REFLECTION PROFILERS</i>	
<i>SEISMOGRAPHS</i>	
<i>SEISMOMETERS</i>	
<i>SEM</i>	<i>Space Environment Monitor</i>
<i>SENSORS</i>	<i>Airglow Sensor</i>
<i>SFM</i>	<i>Spectrofluorometer</i>
<i>SIDE-SCAN SONAR</i>	
<i>SILICON PHOTODIODES</i>	
<i>SIR-A</i>	<i>Shuttle Imaging Radar-A</i>
<i>SIR-B</i>	<i>Shuttle Imaging Radar-B</i>
<i>SIR-C</i>	<i>Spaceborne Imaging Radar-C</i>

InstrumentIdentifier Valids	InstrumentNameValids
SIRIS	Stratospheric Infrared Interferometer Spectrometer
SIRS	Satellite Infrared Spectrometer
SLAR	Side-Looking Airborne Radar
SLR	Satellite Laser Ranging
SLRAR	Side-Looking Real Aperature Radar
SMM-HXIS	SMM Hard X-ray Imaging Spectrometer
SMMR	Scanning Multichannel Microwave Radiometer
SNOW MEASURING ROD	
SODAR	Sound Detection and Ranging
SOIL DEPTH PROBE	
SOIL HEAT FLUX TRANSDUCER	
SOIL HEAT PROBE	
SOIL MOISTURE PROBE	
SOIL SAMPLER	
SOIL TEMPERATURE PROBE	
SOLARIMETERS	
SOLAR TELESCOPES	
SOLAR TEMPERATURE PROBE	
SOLAR UV SPECTROMETERS	
SOLCON	Measurement of the Solar Constant
SOLSPEC	Solar Spectrum Measurement
SOLSTICE	Solar-Stellar Irradiance Comparison Experiment
SOMMA	Single Operator Multiparameter Metabolic Analyzer
SONAR	Sound Navigation and Ranging
SONOBUOYS	
SOON SOLAR TELESCOPES	
SOUNDERS	
SOUP	Solar Optical Universal Polarimeter
SPECIFIC ION METERS	
SPECTROGRAPHS	
SPECTROHELIOGRAPHS	
SPECTROMETERS	
SPECTROPHOTOMETERS	
SPECTRORADIOMETERS	
SPIN-SCAN AURORAL IMAGER	
SPMAMI	Suspended Particulate Matter Automatic Measuring Instrument
SR	Scanning Radiometer
SSALT	POSEIDON Solid State Radar Altimeter
SSBUV	Shuttle Solar Backscatter Ultraviolet
SSCC	Spin Scan Cloud Camera
SSI/ES	Special Sensor Ionospheric Plasma Monitor
SSJ/4	Precipitating Plasma Monitor

InstrumentIdentifier Validates	InstrumentNameValidates
<i>SSM/I</i>	<i>Special Sensor Microwave/Imager</i>
<i>SSM/T</i>	<i>Special Sensor Microwave/Temperature</i>
<i>SSM/T-2</i>	<i>Special Sensor Microwave/Temperature Profiler</i>
<i>SSU</i>	<i>Stratospheric Sounding Unit</i>
<i>STD</i>	<i>Salinity, Temperature, Depth</i>
<i>STEP FREQUENCY RADIOMETERS</i>	
<i>STOKES POLARIMETER</i>	
<i>STREAM GAUGES</i>	
<i>SUN PHOTOMETERS</i>	
<i>SUNSHINE RECORDERS</i>	
<i>SUSIM</i>	<i>Solar Ultraviolet Spectral Irradiance Monitor</i>
<i>SWMS</i>	<i>Surface Water Monitoring System</i>
<i>SWIR</i>	<i>Short Wavelength Infrared Radiometer</i>
<i>SXT</i>	<i>Soft X-ray Telescope</i>
<i>TCISS</i>	<i>TOGA COARE Integrated Sounding System</i>
<i>TDDR</i>	<i>Total-Direct-Diffuse Multichannel Radiometer</i>
<i>TDR</i>	<i>Time Domain Reflectometry Probe</i>
<i>TED</i>	<i>Total Energy Detector</i>
<i>TELESCOPES</i>	
<i>TEMPERATURE PROFILERS</i>	
<i>TES</i>	<i>Tropospheric Emission Spectrometer</i>
<i>TETHERSONDES</i>	
<i>THERMISTORS</i>	
<i>THERMOCOUPLES</i>	
<i>THERMOMETERS</i>	
<i>THERMOSALINOGRAPHS</i>	
<i>THIR</i>	<i>Temperature-Humidity Infrared Radiometer</i>
<i>TIDE GAUGES</i>	
<i>TIMS</i>	<i>Thermal Infrared Multispectral Scanner</i>
<i>TLPCS</i>	<i>Thermoluminescence Photon Counting System</i>
<i>TLRS</i>	<i>Transportable Laser Ranging Systems</i>
<i>TM</i>	<i>Thematic Mapper</i>
<i>TMR</i>	<i>TOPEX Microwave Radiometer</i>
<i>TMS</i>	<i>Thematic Mapper Simulator</i>
<i>TOC</i>	<i>Total Organic Carbon Analyzer</i>
<i>TOMS</i>	<i>Total Ozone Mapping Spectrometer</i>
<i>TOVS</i>	<i>TIROS Operational Vertical Sounder</i>
<i>TRANSMISSOMETERS</i>	
<i>TRANSPARENCY METER</i>	
<i>TRANSPONDERS</i>	
<i>TURBIDITY METERS</i>	
<i>UCN</i>	<i>Ultrafine Condensation Nucleus Counter</i>

InstrumentIdentifier Valids	InstrumentNameValids
UMKEHR OBSERVATIONS	
USIM	Underwater Spectral Irradiance Meter
UV OZONE DETECTORS	Ultraviolet Ozone Detectors
UV SPECTROMETER	Ultraviolet Ozone Spectrometer
UVIC	UV Ion Chamber
UVNO	Ultraviolet Nitric Oxide Spectrometer
UVSP	Ultraviolet Spectrometer and Polarimeter
VAE	Visible Airglow Photometer
VAS	VISSR Atmospheric Sounder
VECTOR MAGNETOGRAPHS	
VERTICAL POINTING RADAR	
VIL	Volume Imaging Lidar
VIRL	Visible and Near IR Lidar
VIRR	Visible and Infrared Radiometer
VISIBLE SPECTROMETER	
VISSR	Visible and Infrared Spin Scan Radiometer
VISUAL OBSERVATIONS	
VLA	The Very Large Array
VLBI	Very Long Baseline Interferometry
VNIR	Visible and Near Infrared Radiometer
VOLTAGE METERS	
VPR	Video Plankton Recorder
VTIR	Visible and Thermal Infrared Radiometer
VTPR	Vertical Temperature Profile Radiometer
WATER BOTTLES	
WATERGUNS	
WATER LEVEL GAUGES	
WATS	Wind and Temperature Spectrometer
WAVE HEIGHT GAUGES	
WBS	Wide Band Spectrometer
WELL LOGGING TOOLS	
WET/DRY PRECIPITATION SAMPLERS	
WF	Weather Fax
WIND PROFILERS	
WIND VANES	
WINDII	Wind Imaging Interferometer
XRD	X-ray Diffractometer
X-RAY FLUORESCENCE SPECTROMETER	
X-RAY TELESCOPE	
X-SAR	X-Band Synthetic Aperture Radar
XBT	Expendable Bathythermographs
XRP	X-Ray Polychromator

3.16 ItemDeliveryMethod

Description: The method by which an item is delivered

Sources: CIP defined

Default Valid:

Validates
FTP
E-MAIL
POST

3.17 ItemDescriptorLanguage/ ItemLanguage

Description (ItemDescriptorLanguage) The language in which the item descriptor is defined.

Description (ItemLanguage) The language in which any textual information within the deliverable item is defined.

Sources: [ISO Language]

Default Valid: English

Validates	ISO-639 code
Abkhazian	ab
Afan Oromo	om
Afar	aa
Afrikaans	af
Albanian	sq
Amharic	am
Arabic	ar
Armenian	hy
Assamese	as
Aymara	ay
Azerbaijani	az
Bashkir	ba
Basque	eu
Bengali	bn
Bhutani	dz
Bihari	bh
Bislama	bi
Breton	br
Bulgarian	bg

Valids	ISO-639 code
<i>Burmese</i>	<i>my</i>
<i>Byelorussian</i>	<i>be</i>
<i>Cambodian</i>	<i>km</i>
<i>Catalan</i>	<i>ca</i>
<i>Chinese</i>	<i>zh</i>
<i>Corsican</i>	<i>co</i>
<i>Croatian</i>	<i>hr</i>
<i>Czech</i>	<i>cs</i>
<i>Danish</i>	<i>da</i>
<i>Dutch</i>	<i>nl</i>
<i>English</i>	<i>en</i>
<i>Esperanto</i>	<i>eo</i>
<i>Estonian</i>	<i>et</i>
<i>Faroese</i>	<i>fo</i>
<i>Fiji</i>	<i>fj</i>
<i>Finnish</i>	<i>fi</i>
<i>French</i>	<i>fr</i>
<i>Frisian</i>	<i>fy</i>
<i>Galician</i>	<i>gl</i>
<i>Georgian</i>	<i>ka</i>
<i>German</i>	<i>de</i>
<i>Greek</i>	<i>el</i>
<i>Greenlandic</i>	<i>kl</i>
<i>Guarani</i>	<i>gn</i>
<i>Gujarati</i>	<i>gu</i>
<i>Hausa</i>	<i>ha</i>
<i>Hebrew</i>	<i>iw</i>
<i>Hindi</i>	<i>hi</i>
<i>Hungarian</i>	<i>hu</i>
<i>Icelandic</i>	<i>is</i>
<i>Indonesian</i>	<i>in</i>
<i>Interlingua</i>	<i>ia</i>
<i>Interlingue</i>	<i>ie</i>
<i>Inupiak</i>	<i>ik</i>
<i>Irish</i>	<i>ga</i>
<i>Italian</i>	<i>it</i>
<i>Japanese</i>	<i>ja</i>
<i>Javanese</i>	<i>jv</i>
<i>Kannada</i>	<i>kn</i>
<i>Kashmiri</i>	<i>ks</i>
<i>Kazakh</i>	<i>kk</i>
<i>Kinyarwanda</i>	<i>rw</i>

Valids	ISO-639 code
<i>Kirghiz</i>	<i>ky</i>
<i>Kirundi</i>	<i>rn</i>
<i>Korean</i>	<i>ko</i>
<i>Kurdish</i>	<i>ku</i>
<i>Laothian</i>	<i>lo</i>
<i>Latin</i>	<i>la</i>
<i>Lettish</i>	<i>lv</i>
<i>Lingala</i>	<i>ln</i>
<i>Lithuanian</i>	<i>lt</i>
<i>Macedonian</i>	<i>mk</i>
<i>Malagasy</i>	<i>mg</i>
<i>Malay</i>	<i>ms</i>
<i>Malayalam</i>	<i>ml</i>
<i>Maltese</i>	<i>mt</i>
<i>Maori</i>	<i>mi</i>
<i>Marathi</i>	<i>mr</i>
<i>Moldavian</i>	<i>mo</i>
<i>Mongolian</i>	<i>mn</i>
<i>Nauru</i>	<i>na</i>
<i>Nepali</i>	<i>ne</i>
<i>Norwegian</i>	<i>no</i>
<i>Occitan</i>	<i>oc</i>
<i>Oriya</i>	<i>or</i>
<i>Pashto</i>	<i>ps</i>
<i>Persian</i>	<i>fa</i>
<i>Polish</i>	<i>pl</i>
<i>Portuguese</i>	<i>pt</i>
<i>Punjabi</i>	<i>pa</i>
<i>Quechua</i>	<i>qu</i>
<i>Rhaeto-Romance</i>	<i>rm</i>
<i>Romanian</i>	<i>ro</i>
<i>Russian</i>	<i>ru</i>
<i>Samoan</i>	<i>sm</i>
<i>Sangho</i>	<i>sg</i>
<i>Sanskrit</i>	<i>sa</i>
<i>Scots Gaelic</i>	<i>gd</i>
<i>Serbian</i>	<i>sr</i>
<i>Serbo-Croatian</i>	<i>sh</i>
<i>Sesotho</i>	<i>st</i>
<i>Setswana</i>	<i>tn</i>
<i>Shona</i>	<i>sn</i>
<i>Sindhi</i>	<i>sd</i>

Validates	ISO-639 code
<i>Singhalese</i>	<i>si</i>
<i>Siswati</i>	<i>ss</i>
<i>Slovak</i>	<i>sk</i>
<i>Slovenian</i>	<i>sl</i>
<i>Somali</i>	<i>so</i>
<i>Spanish</i>	<i>ese</i>
<i>Sundanese</i>	<i>su</i>
<i>Swahili</i>	<i>sw</i>
<i>Swedish</i>	<i>sv</i>
<i>Tagalog</i>	<i>tl</i>
<i>Tajik</i>	<i>tg</i>
<i>Tamil</i>	<i>ta</i>
<i>Tatar</i>	<i>tt</i>
<i>Telugu</i>	<i>te</i>
<i>Thai</i>	<i>th</i>
<i>Tibetan</i>	<i>bo</i>
<i>Tigrinya</i>	<i>ti</i>
<i>Tonga</i>	<i>to</i>
<i>Tsonga</i>	<i>ts</i>
<i>Turkish</i>	<i>tr</i>
<i>Turkmen</i>	<i>tk</i>
<i>Twi</i>	<i>tw</i>
<i>Ukrainian</i>	<i>uk</i>
<i>Urdu</i>	<i>ur</i>
<i>Uzbek</i>	<i>uz</i>
<i>Vietnamese</i>	<i>vi</i>
<i>Volapik</i>	<i>vo</i>
<i>Welsh</i>	<i>cy</i>
<i>Wolof</i>	<i>wo</i>
<i>Xhosa</i>	<i>xh</i>
<i>Yiddish</i>	<i>ji</i>
<i>Yoruba</i>	<i>yo</i>
<i>Zulu</i>	<i>zu</i>

3.18 LocalAttributeValueSyntax

Description: Value syntax (i.e. type) of a local attribute

Sources: CIP defined

Default Valid:

Validates
<i>STRING</i>

Validates
<i>INTEGER</i>
<i>REAL</i>
<i>ENUM</i>
<i>compound</i>
<i>TIME</i>

3.19 LocalUseAttributeFlag

Description: Flag indicating whether:

a collection has no local attributes (value = 0)

a collection has local attributes defined within the collection descriptor (value = 1)

a collection has local attributes defined in the Explain database (value = 2)

Sources: CIP defined

Default Valid: 0

Validates	Description
<i>0</i>	<i>A collection has no local attributes</i>
<i>1</i>	<i>A collection has local attributes defined within the collection descriptor</i>
<i>2</i>	<i>A collection has local attributes defined in the Explain database</i>

3.20 MapProjectionName

Description: Name of the map projection.

Sources: [FGDC *Map Projection Name*]

Default Valid:

Validates
<i>Albers Conical Equal Area</i>
<i>Azimuthal Equidistant</i>
<i>Equidistant Conic</i>
<i>Equiangular</i>
<i>General Vertical Near-sided Projection</i>
<i>Gnomonic</i>
<i>Lambert Azimuthal Equal Area</i>
<i>Lambert Conformal Conic</i>
<i>Mercator</i>
<i>Modified Stereographic for Alaska</i>
<i>Miller Cylindrical</i>

Validates
<i>Oblique Mercator</i>
<i>Orthographic</i>
<i>Polar Stereographic</i>
<i>Polyconic</i>
<i>Robinson</i>
<i>Sinusoidal</i>
<i>Space Oblique Mercator</i>
<i>Stereographic</i>
<i>Transverse Mercator</i>
<i>van der Grinten</i>
<i>Other Projection</i>

3.21 MissionId

Description: Unique code for the satellite/mission.

Sources: [GCMD Source]

Default Valid:

Validates	Description
<i>AD-A</i>	<i>Atmosphere Dynamics A (Explorer 19)</i>
<i>AD-B</i>	<i>Atmosphere Dynamics B (Explorer 24)</i>
<i>AD-C</i>	<i>Atmosphere Dynamics B (Explorer 39)</i>
<i>ADEOS</i>	<i>Advanced Earth Observing Satellite</i>
<i>AE-A</i>	<i>Atmosphere Explorer A (Explorer 17)</i>
<i>AE-B</i>	<i>Atmosphere Explorer B (Explorer 32)</i>
<i>AE-C</i>	<i>Atmosphere Explorer C (Explorer 51)</i>
<i>AE-D</i>	<i>Atmosphere Explorer D (Explorer 54)</i>
<i>AE-E</i>	<i>Atmosphere Explorer E (Explorer 55)</i>
<i>AEM-1</i>	<i>Applications Explorer Mission-1</i>
<i>AEM-2</i>	<i>Applications Explorer Mission-2</i>
<i>AEM-3</i>	<i>Applications Explorer Mission-3</i>
<i>AEROS 2</i>	
<i>AEROS</i>	
<i>AES</i>	<i>Atmospheric Environment Service</i>
<i>AIRCRAFT</i>	
<i>AJISAI</i>	<i>Experimental Geodetic Satellite (Japanese EGS)</i>
<i>ALOUETTE 1</i>	
<i>ALOUETTE 2</i>	
<i>APOLLO</i>	
<i>APOLLO-SOYUZ</i>	
<i>ARAT</i>	<i>Avion de Recherche Atmospherique et de Teledetection</i>

Valids	Description
ARGOS	ARGOS Data Collection and Position Location System
ATLAS	Atmospheric Laboratory for Applications and Science
ATLAS MOORINGS	Autonomous Temperature Line Acquisition System
ATS-1	Advanced Technology Satellite-1
ATS-2	Advanced Technology Satellite-2
ATS-3	Advanced Technology Satellite-3
ATS-4	Advanced Technology Satellite-4
BALLOONS	
BAPMON	Background Air Pollution Monitoring Stations
BE-B	Beacon Explorer-B
BE-C	Beacon Explorer-C
BUOYS	
C-MAN	Coastal Marine Network
CMDL	NOAA Climate Monitoring Diagnostics Laboratory Stations
COSMOS 1500	
COSMOS 49	
CRRES	Combined Release and Radiation Effects Satellite
DASH-2	
DE-1	Dynamics Explorer-1
DE-2	Dynamics Explorer-2
DEM	Digital Elevation Model
DMSP 5B/F3	Defense Meteorological Satellite Program-F3
DMSP 5D-1/F1	Defense Meteorological Satellite Program-F1
DMSP 5D-1/F2	Defense Meteorological Satellite Program-F2
DMSP 5D-1/F3	Defense Meteorological Satellite Program-F3
DMSP 5D-1/F4	Defense Meteorological Satellite Program-F4
DMSP 5D-2/F7	Defense Meteorological Satellite Program-F7
DMSP 5D-2/F8	Defense Meteorological Satellite Program-F8
DMSP 5D-2/F9	Defense Meteorological Satellite Program-F9
DMSP 5D-2/F10	Defense Meteorological Satellite Program-F10
DMSP 5D-2/F11	Defense Meteorological Satellite Program-F11
DMSP 5D-2/F12	Defense Meteorological Satellite Program-F12
DMSP 5D-2/F13	Defense Meteorological Satellite Program-F13
DMSP 5D-2/F14	Defense Meteorological Satellite Program-F14
DMSP	Defense Meteorological Satellite Program
DRILLING PLATFORMS	
ECHO 1	
ECHO 2	
ENVISAT-1	Environmental Satellite 1
EOLE	
EOS AM-1	Earth Observing System, AM-1
EOS CHEM-1	Earth Observing System, Chemistry Series

Validates	Description
<i>EOS LASER ALT</i>	<i>Earth Observing System, Laser Altimeter</i>
<i>EOS PM-1</i>	<i>Earth Observing System, PM-1</i>
<i>EP-TOMS</i>	<i>Earth Probe-TOMS</i>
<i>ERBS</i>	<i>Earth Radiation Budget Satellite</i>
<i>ERS-1</i>	<i>European Remote Sensing Satellite-1</i>
<i>ERS-2</i>	<i>European Remote Sensing Satellite-2</i>
<i>ESSA 1</i>	<i>Environmental Science Services Administration 1</i>
<i>ESSA 2</i>	<i>Environmental Science Services Administration 2</i>
<i>ESSA 3</i>	<i>Environmental Science Services Administration 3</i>
<i>ESSA 4</i>	<i>Environmental Science Services Administration 4</i>
<i>ESSA 5</i>	<i>Environmental Science Services Administration 5</i>
<i>ESSA 6</i>	<i>Environmental Science Services Administration 6</i>
<i>ESSA 7</i>	<i>Environmental Science Services Administration 7</i>
<i>ESSA 8</i>	<i>Environmental Science Services Administration 8</i>
<i>ESSA 9</i>	<i>Environmental Science Services Administration 9</i>
<i>ESSA</i>	<i>Environmental Science Services Administration</i>
<i>ETALON 1</i>	
<i>ETALON 2</i>	
<i>EXOS-A</i>	
<i>EXPLORER 33</i>	<i>Interplanetary Monitoring Platform D (IMP-D)</i>
<i>EXPLORER 35</i>	<i>Interplanetary Monitoring Platform D (IMP-E)</i>
<i>EXPLORER 9</i>	<i>Air Density Balloon</i>
<i>FDSN</i>	<i>Federation of Digital Seismographic Networks</i>
<i>FIELD SURVEYS</i>	
<i>FIXED OBSERVATION STATIONS</i>	
<i>GCM</i>	<i>General Circulation Model</i>
<i>GEMINI</i>	
<i>GEMINI 10</i>	
<i>GEMINI 11</i>	
<i>GEMINI 12</i>	
<i>GEMINI 3</i>	
<i>GEMINI 4</i>	
<i>GEMINI 5</i>	
<i>GEMINI 6</i>	
<i>GEMINI 7</i>	
<i>GEMINI 8</i>	
<i>GEMINI 9</i>	
<i>GEODYNAMIC STATIONS</i>	
<i>GEOMAGNETIC STATIONS</i>	
<i>GEOS 1</i>	<i>Geodetic Earth Orbiting Satellite 1</i>
<i>GEOS 2</i>	<i>Geodetic Earth Orbiting Satellite 2</i>
<i>GEOS 3</i>	<i>Geodetic Earth Orbiting Satellite 3</i>

Validates	Description
<i>GEOSAT</i>	<i>Geodetic Satellite</i>
<i>GEOSTATIONARY SATELLITES</i>	
<i>GMCC</i>	<i>NOAA Geophysical Monitoring for Climatic Change Stations</i>
<i>GMS</i>	<i>Japan Geostationary Meteorological Satellite</i>
<i>GMS-1</i>	<i>Geostationary Meteorological Satellite-1</i>
<i>GMS-2</i>	<i>Geostationary Meteorological Satellite-2</i>
<i>GMS-3</i>	<i>Geostationary Meteorological Satellite-3</i>
<i>GMS-4</i>	<i>Geostationary Meteorological Satellite-4</i>
<i>GMS-5</i>	<i>Geostationary Meteorological Satellite-5</i>
<i>GOES</i>	<i>NOAA Geostationary Operational Environmental Satellites</i>
<i>GOES-1</i>	<i>Geostationary Operational Environmental Satellite 1</i>
<i>GOES-2</i>	<i>Geostationary Operational Environmental Satellite 2</i>
<i>GOES-3</i>	<i>Geostationary Operational Environmental Satellite 3</i>
<i>GOES-4</i>	<i>Geostationary Operational Environmental Satellite 4</i>
<i>GOES-5</i>	<i>Geostationary Operational Environmental Satellite 5</i>
<i>GOES-6</i>	<i>Geostationary Operational Environmental Satellite 6</i>
<i>GOES-7</i>	<i>Geostationary Operational Environmental Satellite 7</i>
<i>GOES-8</i>	<i>Geostationary Operational Environmental Satellite 8</i>
<i>GOES-9</i>	<i>Geostationary Operational Environmental Satellite 9</i>
<i>GOES-10</i>	<i>Geostationary Operational Environmental Satellite 10</i>
<i>GPS</i>	<i>Global Positioning System Satellites</i>
<i>GRAVITY STATIONS</i>	
<i>GRO</i>	<i>Gamma-Ray Observatory</i>
<i>GROUND STATIONS</i>	
<i>GROUND-BASED OBSERVATIONS</i>	
<i>GSN</i>	<i>Global Seismic Network</i>
<i>HCMM</i>	<i>Heat Capacity Mapping Mission</i>
<i>HELICOPTER</i>	
<i>IMP-D</i>	<i>Interplanetary Monitoring Platform-D</i>
<i>IMP-E</i>	<i>Interplanetary Monitoring Platform-E</i>
<i>IMP-I</i>	<i>Interplanetary Monitoring Platform-I</i>
<i>INSAT 1A</i>	<i>Indian National Satellite 1A</i>
<i>INSAT 1B</i>	<i>Indian National Satellite 1B</i>
<i>INSAT</i>	<i>Indian National Satellite</i>
<i>IRIS</i>	<i>Incorporated Research Institutions for Seismology Network</i>
<i>IRS-1A</i>	<i>Indian Remote Sensing Satellite-1A</i>
<i>IRS-1B</i>	<i>Indian Remote Sensing Satellite-1B</i>
<i>ISIS 1</i>	<i>International Satellite for Ionospheric Studies 1</i>
<i>ISIS 2</i>	<i>International Satellite for Ionospheric Studies 2</i>
<i>JERS-1</i>	<i>Japanese Earth Resources Satellite-1</i>
<i>LAGEOS 2</i>	<i>Laser Geodetic Satellite 2</i>
<i>LAGEOS</i>	<i>Laser Geodetic Satellite</i>

Valids	Description
LANDSAT	
LANDSAT-1	
LANDSAT-2	
LANDSAT-3	
LANDSAT-4	
LANDSAT-5	
LPATS	<i>Lightning Positioning and Tracking System Network</i>
MAGSAT	
MAPS	
MERLIN	<i>Aircraft Centre Aviation Meteorologique</i>
MESONET	<i>Mesoscale Meteorological Network</i>
METEOR-2	
METEOR-3	
METEOSAT	
METEOSAT-1	
METEOSAT-2	
METEOSAT-3	
METEOSAT-4	<i>Meteosat Operational Programme 1 (MOP-1)</i>
METEOSAT-5	<i>Meteosat Operational Programme 2 (MOP-2)</i>
METEOSAT-6	<i>Meteosat Operational Programme 3 (MOP-3)</i>
MICROLAB-1	<i>OSC Microlab-1 Satellite</i>
MIDAS 2	<i>Missile Defense Alarm System 2</i>
MIO	<i>Mobile Ionospheric Observatory</i>
MIR-PRIRODA	<i>PRIRODA Module of MIR Space Station</i>
MODELS	
MOORINGS	
MOS-1	<i>Japanese Marine Observation Satellite 1</i>
MOS-1B	<i>Japanese Marine Observation Satellite-1B</i>
NAVSTAR	<i>NAVSTAR Global Positioning System</i>
NEUTRON MONITOR STATIONS	
NIMBUS	
NIMBUS-1	
NIMBUS-2	
NIMBUS-3	
NIMBUS-4	
NIMBUS-5	
NIMBUS-6	
NIMBUS-7	
NOAA POES	<i>NOAA Polar Orbiting Environmental Satellites</i>
NOAA-1	<i>National Oceanic & Atmospheric Administration-1</i>
NOAA-10	<i>National Oceanic & Atmospheric Administration-10</i>
NOAA-11	<i>National Oceanic & Atmospheric Administration-11</i>

Valids	Description
<i>NOAA-12</i>	<i>National Oceanic & Atmospheric Administration-12</i>
<i>NOAA-13</i>	<i>National Oceanic & Atmospheric Administration-13</i>
<i>NOAA-14</i>	<i>National Oceanic & Atmospheric Administration-14</i>
<i>NOAA-2</i>	<i>National Oceanic & Atmospheric Administration-2</i>
<i>NOAA-3</i>	<i>National Oceanic & Atmospheric Administration-3</i>
<i>NOAA-4</i>	<i>National Oceanic & Atmospheric Administration-4</i>
<i>NOAA-5</i>	<i>National Oceanic & Atmospheric Administration-5</i>
<i>NOAA-6</i>	<i>National Oceanic & Atmospheric Administration-6</i>
<i>NOAA-7</i>	<i>National Oceanic & Atmospheric Administration-7</i>
<i>NOAA-8</i>	<i>National Oceanic & Atmospheric Administration-8</i>
<i>NOAA-9</i>	<i>National Oceanic & Atmospheric Administration-9</i>
<i>NSRN</i>	<i>NOAA Solar Radiation Network</i>
<i>NWS</i>	<i>National Weather Service</i>
<i>OBSERVATORIES</i>	
<i>OCEAN PLATFORMS</i>	
<i>OCEAN WEATHER STATIONS</i>	
<i>OGO 1</i>	<i>Orbiting Geophysical Observatory 1</i>
<i>OGO 2</i>	<i>Orbiting Geophysical Observatory 2</i>
<i>OGO 3</i>	<i>Orbiting Geophysical Observatory 3</i>
<i>OGO 4</i>	<i>Orbiting Geophysical Observatory 4</i>
<i>OGO 5</i>	<i>Orbiting Geophysical Observatory 5</i>
<i>OGO 6</i>	<i>Orbiting Geophysical Observatory 6</i>
<i>ORBVIEW-2</i>	<i>Orbital Sciences Corporation OrbView-2 Satellite</i>
<i>OSO 1</i>	<i>Orbiting Solar Observatory 1</i>
<i>OSO 2</i>	<i>Orbiting Solar Observatory 2</i>
<i>OSO 3</i>	<i>Orbiting Solar Observatory 3</i>
<i>OSO 4</i>	<i>Orbiting Solar Observatory 4</i>
<i>OSO 5</i>	<i>Orbiting Solar Observatory 5</i>
<i>OSO 6</i>	<i>Orbiting Solar Observatory 6</i>
<i>OSO 7</i>	<i>Orbiting Solar Observatory 7</i>
<i>OSO 8</i>	<i>Orbiting Solar Observatory 8</i>
<i>OSTA-1</i>	<i>Office of Space & Terrestrial Applications-1</i>
<i>OV-099</i>	<i>Challenger Space Shuttle</i>
<i>OV-102</i>	<i>Columbia Space Shuttle</i>
<i>OV-103</i>	<i>Discovery Space Shuttle</i>
<i>OV-104</i>	<i>Atlantis Space Shuttle</i>
<i>OV-105</i>	<i>Endeavour Space Shuttle</i>
<i>PAGEOS 1</i>	<i>Passive Geodetic Earth Orbiting Satellite 1</i>
<i>PAM-II</i>	<i>Portable Automated Mesonet II</i>
<i>PAMS</i>	<i>Portable Automated Mesonet Stations</i>
<i>PASSCAL</i>	<i>Program for Array Seismic Studies of the Continental Lithosphere</i>
<i>PIBAL</i>	<i>Pilot Balloons</i>

Valids	Description
<i>PROTEUS</i>	<i>Profile Telemetry of Upper Ocean Currents</i>
<i>RADARSAT-1</i>	
<i>RAE-A</i>	<i>Radio Astronomy Explorer-A</i>
<i>RAE-B</i>	<i>Radio Astronomy Explorer-B (Explorer 49)</i>
<i>RESURS-O1</i>	
<i>ROCKETS</i>	
<i>SAGE</i>	<i>Stratospheric Aerosol and Gas Experiment</i>
<i>SATELLITES</i>	
<i>SEASAT</i>	<i>Ocean Dynamics Satellite</i>
<i>SEISMOLOGICAL STATIONS</i>	
<i>SHIPS</i>	
<i>SID</i>	<i>Sudden Ionospheric Disturbance Stations</i>
<i>SKYLAB</i>	
<i>SME</i>	<i>Solar Mesospheric Explorer</i>
<i>SMM</i>	<i>Solar Maximum Mission</i>
<i>SMS</i>	<i>Synchronous Meteorological Satellites</i>
<i>SMS-1</i>	<i>Synchronous Meteorological Satellite 1</i>
<i>SMS-2</i>	<i>Synchronous Meteorological Satellite 2</i>
<i>SOLAR RADIATION STATIONS</i>	
<i>SOLMET</i>	<i>Solar and Meteorological Stations</i>
<i>SOLRAD 1</i>	<i>Solar Radiation 1</i>
<i>SOLRAD 10</i>	<i>Solar Radiation 10</i>
<i>SOLRAD 7A</i>	<i>Solar Radiation 7A</i>
<i>SOLRAD 7B</i>	<i>Solar Radiation 7B</i>
<i>SOLRAD 8</i>	<i>Solar Radiation 8</i>
<i>SOLRAD 9</i>	<i>Solar Radiation 9</i>
<i>SOON</i>	<i>Solar Observing Optical Network</i>
<i>SOUNDING ROCKETS</i>	
<i>SPACE SHUTTLES</i>	
<i>SPACELAB 1</i>	
<i>SPACELAB 3</i>	
<i>SPAS II</i>	<i>Shuttle Pallet Satellite II</i>
<i>SPOT 1</i>	<i>Système Probatoire Pour l'Observation de la Terre-1</i>
<i>SPOT 2</i>	<i>Système Probatoire Pour l'Observation de la Terre-2</i>
<i>SPOT 3</i>	<i>Système Probatoire Pour l'Observation de la Terre-3</i>
<i>SRL-1</i>	<i>Space Radar Laboratory-1</i>
<i>SRL-2</i>	<i>Space Radar Laboratory-2</i>
<i>STARLETTE</i>	
<i>STELLA</i>	
<i>STS-11</i>	<i>Space Transport System STS-11</i>
<i>STS-2</i>	<i>Space Transport System STS-2</i>
<i>STS-34</i>	<i>Space Transport System STS-34</i>

Valid	Description
<i>STS-39</i>	<i>Space Transport System STS-39</i>
<i>STS-41</i>	<i>Space Transport System STS-41</i>
<i>STS-41G</i>	<i>Space Transport System STS-41G</i>
<i>STS-43</i>	<i>Space Transport System STS-43</i>
<i>STS-45</i>	<i>Space Transport System STS-45</i>
<i>STS-51B</i>	<i>Space Transport System STS-51B</i>
<i>STS-51F</i>	<i>Space Transport System STS-51F</i>
<i>STS-55</i>	<i>Space Transport System STS-55</i>
<i>STS-56</i>	<i>Space Transport System STS-56</i>
<i>STS-59</i>	<i>Space Transport System STS-59</i>
<i>STS-62</i>	<i>Space Transport System STS-62</i>
<i>STS-66</i>	<i>Space Transport System STS-66</i>
<i>STS-68</i>	<i>Space Transport System STS-68</i>
<i>STS-72</i>	<i>Space Transport System STS-72</i>
<i>STS-7</i>	<i>Space Transport System STS-7</i>
<i>STS-9</i>	<i>Space Transport System STS-9</i>
<i>SV</i>	<i>Snow Vehicle</i>
<i>TIMAX</i>	<i>X-Ray Imaging Telescope</i>
<i>TIROS 7</i>	<i>Television Infrared Operational</i>
<i>TIROS</i>	<i>Television Infrared Observation Satellite</i>
<i>TIROS-N</i>	<i>Television Infrared Observation Satellite-N</i>
<i>TOPEX/POSEIDON</i>	<i>Ocean Topography Experiment</i>
<i>TRMM</i>	<i>Tropical Rainfall Measuring Mission</i>
<i>UARS</i>	<i>Upper Atmosphere Research Satellite</i>
<i>VANGUARD</i>	
<i>VENERA-13</i>	
<i>VENERA-14</i>	
<i>WEATHER STATIONS</i>	
<i>WTSS</i>	<i>Water Temperature and Salinity System</i>
<i>YOHKOH</i>	

3.22 PassType

Description: Type of a satellite pass, i.e. 'ascending' or 'descending'

Sources: CIP defined

Default Valid:

Valid
<i>Ascending</i>
<i>Descending</i>
<i>None</i>

3.23 PeriodCycleUnit

Description: The unit specification of the cycle of the period, e.g. year, millisecond.

Sources: ECS

Default Valid:

Valid
<i>Decade</i>
<i>Year</i>
<i>Month</i>
<i>Week</i>
<i>Day</i>
<i>Hour</i>
<i>Minute</i>
<i>Second</i>
<i>Millisecond</i>
<i>Microsecond</i>

3.24 PeriodDurationUnit

Description: The unit specification of the duration of the period, e.g. year, millisecond.

Sources: ECS

Default Valid:

Valid
<i>Decade</i>
<i>Year</i>
<i>Month</i>
<i>Week</i>
<i>Day</i>
<i>Hour</i>
<i>Minute</i>
<i>Second</i>
<i>Millisecond</i>
<i>Microsecond</i>

3.25 ProcessingCentre

Description: Contains the short name of the data centre that has generated the data.

Sources: [ECS]

Default Valid:

Valid	Description
GSFC	Goddard Space Flight Center
LaRC	Langley Research Center
ORNL	Oak Ridge National Laboratory
EDC	EROS Data Center
NSIDC	National Snow and Ice Data Center
JPL	Jet Propulsion Laboratory
CIESIN	Consortium for International Earth Science Information Network
EDOS	EOS Data and Operations System
MISR SCF	MISR Science Computing Facility
SAGE III SCF	SAGE III Science Computing Facility
ERSDAC	Earth Remote Sensing Data Analysis Center in Japan

3.26 ProcessingLevelId

Description: This parameter identifies the processing level of the data in the archive

Sources: [ECS]

Default Valid: Not Available

Valid	Description
0	Raw instrument data at original resolution, time ordered, with duplicate packets removed.
1A	Level 0 data, which may have been reformatted or transformed reversibly, located to a coordinate system and packaged with needed ancillary and engineering data.
1B	Radiometrically corrected and calibrated data in physical units at full instrument resolution as acquired.
2	Retrieved environment variables (e.g. ocean wave height, soil moisture, ice concentration) at the same location and similar resolution to the Level 1 source data.
3	Data or retrieved environmental variables that have been spatially and/or temporally resampled (i.e. derived from Level 1 or Level 2 data products). Such resampling may include averaging and compositing.
4	Model output and/or variables derived from lower level data which are not directly measured by the instruments. For example, new variables based upon a time series of Level 2 or Level 3 data.
Not Available	Information not available

3.27 ProcessingType

Description: Type of processing, e.g. 'colour image product', GTC with DTM information'

Sources: CIP defined

Default Valid:

Valid
Colour Image Product

Sources: [FGDC *Digital Transfer Information - Format Name*]

Default Valid:

Valid	Description
ARCE	ARC/INFO Export format
ARCG	ARC/INFO Generate format
ASCII	ASCII file, formatted for text attributes, declared format
BIL	Imagery, band interleaved by line
BIP	Imagery, band interleaved by pixel
BSQ	Imagery, band interleaved sequential
CDF	Common Data Format
CFF	Cartographic Feature File (U.S. Forest Service)
COORD	User-created coordinate file, declared format
DEM	Digital Elevation Model format (U.S. Geological Survey)
DFAD	Digital Feature Analysis Data (Defense Mapping Agency)
DGN	Microstation format (Intergraph Corporation)
DIGEST	Digital Geographic Information Exchange Standard
DLG	Digital Line Graph (U.S. Geological Survey)
DTED	Digital Terrain Elevation Data (MIL-D-89020)
DWG	AutoCAD Drawing format
DX90	Data Exchange '90
DXF	AutoCAD Drawing Exchange Format
ERDAS	ERDAS image files (ERDAS Corporation)
GRASS	Geographic Resources Analysis Support System
HDF	Hierarchical Data Format
IGDS	Interactive Graphic Design System format (Intergraph Corporation)
IGES	Initial Graphics Exchange Standard

Valid	Description
<i>MOSS</i>	<i>Multiple Overlay Statistical System export file</i>
<i>netCDF</i>	<i>network Common Data Format</i>
<i>NITF</i>	<i>National Imagery Transfer Format</i>
<i>RPF</i>	<i>Raster Product Format (Defense Mapping Agency)</i>
<i>RVC</i>	<i>Raster Vector Converted format (MicroImages)</i>
<i>RVF</i>	<i>Raster Vector Format (MicroImages)</i>
<i>SDTS</i>	<i>Spatial Data Transfer Standard (Federal Information Processing Standard 173)</i>
<i>SIF</i>	<i>Standard Interchange Format (DOD Project 2851)</i>
<i>SLF</i>	<i>Standard Linear Format (Defense Mapping Agency)</i>
<i>TGRLN</i>	<i>Topologically Integrated Geographic Encoding and Referencing (TIGER) Line format (Bureau of the Census)</i>
<i>TIFF</i>	<i>Tagged Image File Format</i>
<i>VPF</i>	<i>Vector Product Format (Defense Mapping Agency)</i>

3.30 ProductMedium

Description: Medium on which the product is available, e.g. CD-ROM, Exabyte,

Sources: [FGDC *Offline Media*] and additions

Default Valid:

Valid (FGDC)
<i>3-1/2 inch floppy disk</i>
<i>5-1/4 inch floppy disk</i>
<i>9-track tape</i>
<i>4 mm cartridge tape</i>
<i>8 mm cartridge tape</i>
<i>1/4-inch cartridge tape</i>

Valid (Additional)
<i>on-line</i>
<i>5 MO (Magnetic Optical Disk)</i>
<i>3.5 MO (Magnetic Optical Disk)</i>
<i>photo</i>
<i>D1 tape</i>

3.31 ProjectName

Description: This element should be supplied when there is a relationship of the collection to a campaign or project (e.g. WOCE, FIRE, PROMIS, etc.). Campaigns or projects usually encompass data from a number of diverse data sources. The element includes both short and long names.

Sources: [GCMD *Project/Campaign*]

Default Valid:

Valid	Description
A&RW/SJC	Aerosols and Rain Water at Sao Jose dos Campos, SP, Brazil
AAOE	Airborne Antarctic Ozone Experiment
AASE	Airborne Arctic Stratospheric Expedition
AASE-II	Airborne Arctic Stratospheric Expedition-II
ABRACOS	Anglo-Brazilian Amazonian Climate Observation Study
ACDCA	Antarctic Inspections Cruise
ACID-MODES	Acid Model Operational Diagnostic Evaluation Study
ACR	Antarctic Climate Research
AEOLUS 1980	Atmospheric Experiment on Orographic Flows, Lee Waves, Upslope Snowstorms
AFEAS	Alternative Fluorocarbons Environmental Acceptability Study
AGASP	Arctic Gas and Aerosol Sampling Program
AIDJEX	Arctic Ice Dynamics Joint Experiment
AIRMON	Air Monitoring Network - Dry Deposition
AIRSTREAM	
AJAX	
ALE/GAGE	Atmospheric Lifetime Experiment/Global Atmospheric Gases Experiment
ALIVE	Army Lidar Verification Experiment
ALPEX	Alpine Experiment
AMASSED	Amazon Shelf Sediment Study
AMEX/EMEX	Australian Monsoon Experiment
AMIP	Atmospheric Model Intercomparison Project
ANT-VI/3	Structure of the Continental Margin in the Weddell Sea and Adjacent Areas
ANT-VIII/5	Structure of the Continental Margin in the Weddell Sea and Adjacent Areas
ANT-X/2	Structure of the Continental Margin in the Weddell Sea and Adjacent Areas
ANT-XII/2	Structure of the Continental Margin in the Weddell Sea and Adjacent Areas
APEX	Arctic Polynya Experiment
APIOS	Acid Precipitation In Ontario Study
ARB	Aerosol Research Branch Light Detection and Ranging Project
ARCSS/LAII	Arctic System Science/Land-Atmosphere-Ice Interaction
ARCTIC'91	Structure of the Oceanic Lithosphere of the Arctic Ocean
ARK-V/3B	Structure of the East Greenland Continental Margin
ARK-VII/3B	Structure of the East Greenland Continental Margin
ARK-X/2	Structure of the East Greenland Continental Margin
ARM	Atmospheric Radiation Measurement Project
ARMCAS	Arctic Radiation Measurement in Column Atmosphere Surface

Valids	Description
ARSLOE	Atlantic Remote Sensing Land/Ocean Experiment
ARTEMIS	UN/FAO Africa Real Time Environmental Monitoring Using Imaging Satellites
ASHCAN	
ASTEX	Atlantic Stratocumulus Transition Experiment
ATLANTA EXPERIMENT	Atlanta International Airport Experiment
ATLAS	Atmospheric Laboratory for Applications and Science
ATMOSPHERIC DRAG EXPERIMENT	
AVE	Atmospheric Variability Experiment
AVHRR PATHFINDER	AVHRR Land Dataset Program
AVHRR 1-KM PATHFINDER	
AWDN	Automated Weather Data Network
BAPMON	Background Air Pollution Monitoring Network
BASICS	Bering Air-Sea-Ice Study
BBS	Bird Breeding Survey
BCI	Bat Conservation International
BD CARTO	French Cartographic Database
BIO_BURN	Biomass Burning Project
BIOMASS	Biological Investigations of Marine Antarctic Systems and Stocks
BIOQUIMICA_APLICADA	Biochemical and Nutritional Studies on Antarctic
BLAST	Bromine Latitudinal Air/Sea Transect
BMDO	Ballistic Missile Defense Organization
BOFS	Biogeochemical Ocean Flux Study
BOMEX	Barbados Oceanographic and Meteorological Experiment
BOREAS	The Boreal Ecosystem-Atmosphere Study
BRFEX	Boardman Regional Flux Experiment (DOE ARM)
CALCOFI	California Cooperative Oceanic Fisheries Investigations
CAMEX	Convection and Moisture Experiment
CAMP	California Monitoring Program
CAPE	Convection and Precipitation/Electrification Experiment
CAPMON	Canadian Air and Precipitation Monitoring Network
CBC	Christmas Bird Counts
CCAP	Coastal Change Analysis Project
CCCCS	Central California Coastal Circulation Study
CDRK	Carbon Dioxide Research of Kanagawa
CEAREX	Coordinated Eastern Arctic Experiment
CEPEX	Central Equatorial Pacific Experiment
CERES	Clouds and Earth Radiant Energy System
CGC	NOAA Climate and Global Change Program
CHARTERBOAT SURVEY	
CI2	Cirrus Experiment
CIBAC	
CILAT	

Valids	Description
CLARET	Cloud Lidar And Radar Exploratory Study
CLIMAP	Climate - Long Range Investigation, Mapping and Prediction
CLIMPROB	Guiding/Assisting Agroclimatic Decision Making Program
CLIVAR	Climate Variability
CMDL	Climate Monitoring and Diagnostics Laboratory (NOAA)
CMIP	Coupled Model Intercomparison Project
COADS	Comprehensive Ocean Atmosphere Data Set
CODE	Coastal Ocean Dynamics Experiment
COHMEX	Cooperative Huntsville Monsoon Experiment
COLD	Coupled Ocean-Ice Linkages & Dynamics
COMET	Cooperative Program for Operational Meteorology, Education, and Training
COMEX	
CONFLUENCIA_WEDDELL-SCOTIA	
COP	Coastal Ocean Program
CORE	Coastal Ocean Response Experiment
COROAS	Oceanic Circulation in the Western Region of the South Atlantic
COSPAR	Committee on Space Research
CREDDP	Columbia River Estuary Data Development Program
CRREL	U.S. Army Cold Regions Research and Engineering Laboratory
CUENCAS_SEDIMENTARIAS	
CURTAIN I-VIII	
DINOCEANTAR	Dinamica_Oceanica_Antartica
DMSP	Defense Meteorological Satellite Program
DNAG	Decade of North American Geology
DOERAP	Department of Energy Resource Assessment Program
DOMES	Deep Ocean Mining Environmental Study
DSDP	Deep Sea Drilling Program
DULLES EXPERIMENT	Dulles International Airport Experiment
DUNDEE	Down-Under Doppler and Electricity Experiment
EASOE	European Arctic and Stratospheric Ozone Experiment
EASTROPAC	Eastern Tropical Pacific
EBC	Eastern Boundary Current
ECLIPS	Experimental Cloud Lidar Pilot Study
ECOLOGIA_DEL_PLANCTON	
EDIMS	UNH Environmental Data and Information Management System
EFX	Elkins Flux Experiment
EGMEX	Eastern Gulf of Mexico
EMEFS	Eulerian Model Evaluation Field Study
ENERGIAS_NO_CONVENCIONALES	Vulcanologia Monitoreo
EOLE	
EOS	Earth Observing System
EOSAP	Earth Observing System Amazon Project

Valids	Description
<i>EOSDIS</i>	<i>Earth Observing System Data Information System</i>
<i>EPA CTMD PROGRAM</i>	<i>EPA Complex Terrain Model Development Program</i>
<i>EPA GCRP</i>	<i>EPA Global Change Research Program</i>
<i>EPOCS</i>	<i>Equatorial Pacific Ocean Climate Studies</i>
<i>ERAQS</i>	<i>Eastern Regional Air Quality Study</i>
<i>ERBE</i>	<i>Earth Radiation Budget Experiment</i>
<i>ERICA</i>	<i>Experiment Rapidly Intensifying Cyclones Atlantic</i>
<i>ERM</i>	<i>Exact Repeat Mission</i>
<i>ESTN</i>	<i>Estuarine Nitrogen</i>
<i>EUBEX</i>	<i>Eurasian Basin Experiment</i>
<i>FADMP</i>	<i>Florida Acid Deposition Monitoring Program</i>
<i>FADS</i>	<i>Florida Acid Deposition Study</i>
<i>F DRAKE</i>	<i>First Dynamic Response and Kinematic Experiment in the Drake Passage</i>
<i>FIFE</i>	<i>First ISLSCP Field Experiment</i>
<i>FIRE</i>	<i>First ISCCP Regional Experiment</i>
<i>FIRE II</i>	<i>First ISCCP Regional Experiment - Cirrus II</i>
<i>FIRE/MTV</i>	<i>Fire in Global Resources and Environmental Monitoring</i>
<i>FLARES 22</i>	<i>Flares Research at the Maximum of Solar Cycle 22</i>
<i>FLEX</i>	
<i>FLORENCE</i>	<i>FLux Oceaniques Restitues par bilan d'ENergie a la surfaCE</i>
<i>FOCAL</i>	<i>Programme Francais Ocean et Climat dans l'Atlantique Equatorial</i>
<i>FOCI</i>	<i>Fisheries Oceanography Cooperative Investigation</i>
<i>FORAST</i>	<i>Forest Response to Anthropogenic Stress</i>
<i>FRAQS</i>	<i>Front Range Air Quality Study</i>
<i>FRENTES_OCEANICOS</i>	
<i>FRLAB</i>	<i>Front Range Lidar and Ballon Experiment 3</i>
<i>GALE</i>	<i>Genesis of Atlantic Lows Experiment</i>
<i>GALVESTON BAY BAIT SURVEY</i>	
<i>GAMETAG</i>	<i>Global Atmospheric Measurements Experiment on Tropospheric Aerosols and Gases</i>
<i>GANOVEX VI</i>	<i>Aeromagnetic Investigations in North Victoria Land</i>
<i>GARP/FGGE</i>	<i>Global Atmospheric Research Program/First Garp Global Experiment (GARP/FGGE)</i>
<i>GATE</i>	<i>GARP Atlantic Tropical Experiment</i>
<i>GAW</i>	<i>Global Atmosphere Watch</i>
<i>GCCHP</i>	<i>Global Change Climate History Project</i>
<i>GCIP</i>	<i>GEWEX Continental-Scale International Project</i>
<i>GCOS</i>	<i>Global Climate Observing System</i>
<i>GCPS</i>	<i>Global Climate Perspectives System</i>
<i>GEIA</i>	<i>Global Emissions Inventory Activity</i>
<i>GEOSCOPE</i>	<i>Interactive Global Change Encyclopedia</i>
<i>GEOSECS</i>	<i>Geochemical Ocean Section Study</i>
<i>GEWEX</i>	<i>Global Energy and Water Cycle Experiment</i>
<i>GGBRB</i>	<i>Geochemistry and Geophysics of the Buquira River Basin</i>

Valids	Description
<i>GGD</i>	<i>Global Geocryological Database</i>
<i>GHCN</i>	<i>Global Historical Climatology Network</i>
<i>GIG91</i>	<i>GPS IERS and Geodynamics Experiment</i>
<i>GLOBE</i>	<i>Global Learning and Observations to Benefit the Environment</i>
<i>GLOBEC</i>	<i>Global Ocean Ecosystems Dynamics</i>
<i>GLOBMET</i>	<i>Global Meteor Observation System</i>
<i>GLOSS</i>	<i>Global Sea Level Observing System</i>
<i>GMCC</i>	<i>Geophysical Monitoring for Climate Change (NOAA)</i>
<i>GNIS</i>	<i>Geographic Names Information System</i>
<i>GOALS</i>	<i>Global Ocean Atmosphere Land System</i>
<i>GOMPOP</i>	<i>Gulf of Mexico Physical Oceanography Program</i>
<i>GONG</i>	<i>Global Oscillation Network Group</i>
<i>GOOS</i>	<i>Global Ocean Observing System</i>
<i>GPCC</i>	<i>Global Precipitation Climatology Center Project</i>
<i>GPCP</i>	<i>Global Precipitation Climatology Project</i>
<i>GPS/MET</i>	<i>Global Positioning System Meteorology Experiment</i>
<i>GRAVSAT</i>	
<i>GRSFE</i>	<i>Geologic Remote Sensing Field Experiment</i>
<i>GTOPO30</i>	<i>Global 30-Arc-Second Elevation Data Set</i>
<i>GTE</i>	<i>Global Tropospheric Experiment</i>
<i>GTMS</i>	<i>Global Thermosphere Mapping Study</i>
<i>GUSREX</i>	<i>Gulf Stream Recirculation Experiment</i>
<i>HASP</i>	<i>High Altitude Sampling Program</i>
<i>HCN</i>	<i>Historical Climatology Network</i>
<i>HIELOANTAR</i>	<i>Antarctic Glaciology</i>
<i>HOT</i>	<i>Hawaiian Ocean Time Series Project</i>
<i>HSRP</i>	<i>High Speed Research Program</i>
<i>IBSS</i>	<i>Infrared Background Signature Survey</i>
<i>ICITA</i>	<i>International Cooperative Investigations of the Tropical Atlantic</i>
<i>ICRCCM</i>	<i>Intercomparison of Radiation Codes in Climate Models</i>
<i>IDOE</i>	<i>International Decade of Ocean Exploration</i>
<i>IDS-LSC</i>	<i>Interdisciplinary Sciences-Land Surface Climatology</i>
<i>IERS</i>	<i>International Earth Rotation Service</i>
<i>IFS</i>	<i>Integrated Forest Study</i>
<i>IGAC</i>	<i>International Global Atmospheric Chemistry</i>
<i>IGBP</i>	<i>International Geosphere Biosphere Program</i>
<i>IGCP</i>	<i>International Geological Correlation Program</i>
<i>IGOSS</i>	<i>Integrated Global Ocean Services System</i>
<i>IGS</i>	<i>International GPS Geodynamics Service</i>
<i>ILS</i>	<i>International Latitude Service</i>
<i>IMMUNOLOGY</i>	<i>Study of Human Response to Antarctic Environment</i>
<i>IMS</i>	<i>International Magnetosphere Study</i>

Valids	Description
<i>INDIGO</i>	<i>Indien Gaz Ocean</i>
<i>INTERCAMBIO_CALORICO</i>	<i>Study of Food Intake, Calories and Heat Production in Humans in Antarctica</i>
<i>INTERKOSMOS</i>	
<i>IPA</i>	<i>International Permafrost Association</i>
<i>IPCC</i>	<i>Intergovernmental Panel on Climate Change</i>
<i>IPMS</i>	<i>International Polar Motion Service</i>
<i>IPOD</i>	<i>International Phase of Ocean Drilling</i>
<i>ISCCP</i>	<i>International Satellite Cloud Climatology Project</i>
<i>ISLSCP</i>	<i>International Satellite Land Surface Climatology Project</i>
<i>ISLSCP INITIATIVE-I</i>	<i>International Satellite Land Surface Climatology Project Initiative-I</i>
<i>ISMEX</i>	
<i>ISOS</i>	<i>International Southern Ocean Studies</i>
<i>IXTOC</i>	
<i>JAPACS</i>	<i>Japanese Pacific Climate Studies</i>
<i>JARE 18</i>	<i>Japanese Antarctic Research Expedition 18</i>
<i>JARE 20</i>	<i>Japanese Antarctic Research Expedition 20</i>
<i>JARE 21</i>	<i>Japanese Antarctic Research Expedition 21</i>
<i>JARE 22</i>	<i>Japanese Antarctic Research Expedition 22</i>
<i>JARE 23</i>	<i>Japanese Antarctic Research Expedition 23</i>
<i>JARE 24</i>	<i>Japanese Antarctic Research Expedition 24</i>
<i>JARE 25</i>	<i>Japanese Antarctic Research Expedition 25</i>
<i>JARE 26</i>	<i>Japanese Antarctic Research Expedition 26</i>
<i>JARE 27</i>	<i>Japanese Antarctic Research Expedition 27</i>
<i>JARE 28</i>	<i>Japanese Antarctic Research Expedition 28</i>
<i>JARE 31</i>	<i>Japanese Antarctic Research Expedition 31</i>
<i>JARE</i>	<i>Japanese Antarctic Research Expedition</i>
<i>JASIN78</i>	<i>Joint Air-Sea Interaction Project</i>
<i>JAWS</i>	<i>Joint Airport Weather Study</i>
<i>JC-JSOD</i>	<i>Japan-China Joint Study on Desertification</i>
<i>JGOFS</i>	<i>Joint Global Ocean Flux Study</i>
<i>JONSDAP76</i>	<i>Joint North Sea Data Acquisition Project</i>
<i>JONSWAP</i>	<i>Joint North Sea Wave Project</i>
<i>L-RERP</i>	<i>Puget Sound Long-Range Effects Program</i>
<i>LAKE MICHIGAN ECOL. MONITOR</i>	
<i>LARGE SCALE PROJECT</i>	
<i>LBA</i>	<i>Large Scale Biosphere-Atmosphere Experiment in Amazonia</i>
<i>LEADEX</i>	<i>Arctic Leads Experiment</i>
<i>LEADS ARI</i>	<i>Office of Naval Research Arctic Leads Accelerated Research Initiative</i>
<i>LIS</i>	<i>Lightning Imaging Sensor Project</i>
<i>LMOS</i>	<i>Lake Michigan Ozone Study</i>
<i>LOIS</i>	<i>Land Ocean Interaction Study</i>
<i>LOWS</i>	<i>Lake Ontario Winter Storms Experiment</i>

Valids	Description
<i>LTER</i>	<i>Long-Term Ecological Research</i>
<i>MAGNET</i>	
<i>MAP</i>	<i>Middle Atmosphere Program</i>
<i>MAP3S</i>	<i>Multistate Atmospheric Power Production Pollution Study</i>
<i>MAP/WINE</i>	<i>Middle Atmosphere Program/Winter in Northern Europe</i>
<i>MARINE_MAMMALS_PROGRAM</i>	<i>Marine Mammals Dynamic Population in South Orkney Is. & South Shetland Is.</i>
<i>MARIS</i>	<i>Multi Aquatic Resource Information System</i>
<i>MARMAP</i>	<i>Marine Resources, Monitoring, Assessment and Prediction</i>
<i>MARPOLMON</i>	
<i>MASAR</i>	<i>Mid Atlantic Slope Rise Experiment</i>
<i>MAST</i>	<i>Monterey Area Ship Tracks</i>
<i>MAX91</i>	<i>The U.S. Max '91 Program of Flare Research Campaigns</i>
<i>MECCA</i>	<i>Model Evaluation Consortium for Climate Change Assessment</i>
<i>MECHANISM ON ASIAN MONSOON</i>	
<i>MEDALPEX</i>	<i>Mediterranean Alpine Experiment</i>
<i>MEDIO_AMBIENTE</i>	
<i>MERIT</i>	<i>Monitoring Earth Rotation and Intercompare Techniques</i>
<i>MESA</i>	<i>Marine Ecosystems Analysis (Puget Sound) Project</i>
<i>MESOGAMM 86</i>	
<i>MINERAL RESOURCES</i>	<i>SISMOANTAR</i>
<i>MIZEX</i>	<i>Marginal Ice Zone Experiment</i>
<i>MIZEX-WEST</i>	<i>Marginal Ice Zone Experiment-West</i>
<i>MIZPAC</i>	<i>Marginal Sea Ice Zone Pacific</i>
<i>MOHAVE</i>	<i>Measurement of Haze and Visual Effects</i>
<i>MONEX</i>	<i>Monsoon Experiment</i>
<i>MONITOREO_DE_ECOSISTEMAS</i>	<i>Penguin Monitoring of Antarctic Peninsula, South Orkney Is., South Shetland Is.</i>
<i>MRS</i>	<i>Marine Remote Sensing</i>
<i>NADP</i>	<i>National Atmospheric Deposition Program</i>
<i>NANSEN</i>	<i>North Atlantic Norwegian Sea Exchange</i>
<i>NBIOME</i>	<i>Northern Biosphere Observation and Modelling Experiment</i>
<i>NCCCS</i>	<i>Northern California Coastal Circulation Study</i>
<i>NCSS</i>	<i>National Cooperative Soil Survey</i>
<i>NCTS</i>	<i>Northern California Transport Study</i>
<i>NDSC</i>	<i>Network for Detection of Stratospheric Change</i>
<i>NDTP</i>	<i>North Dakota Thunderstorm Project</i>
<i>NEI</i>	<i>National Estuarine Inventory</i>
<i>NEMP</i>	<i>Northeast Monitoring Program</i>
<i>NEXRAD</i>	<i>NEXt Generation Weather RADar</i>
<i>NICAL</i>	
<i>NIN</i>	<i>Northern Information Network</i>
<i>NOAA/NASA PATHFINDER</i>	<i>NOAA/NASA Pathfinder Program</i>
<i>NORPAX</i>	<i>North Pacific Shuttle Experiment</i>

Valids	Description
NORSWAM	North Sea Wave Model
NS&T	National Status and Trends Program
NSTS	Nearshore Sediment Transport Study
NTN	National Trends Network
NVAP	NASA Water Vapor Project
NWI	National Wetlands Inventory
O'HARE EXPERIMENT	O'Hare Airport Experiment
OAXTC	Ocean/Atmosphere Exchange of Trace Compounds
OCEAN	Ocean Color European Archive Network
OCEANOGRAFIA_COSTERA	
OCRS	Ocean Color Remote Sensing
OCS	Outer Continental Shelf Program
OCSEAP	Ocean Continental Shelf Environmental Assessment Project
ODP/DSDP	Ocean Drilling Program / Deep Sea Drilling Project
OEN	Operational Evaluation Network
ONR OCEAN OPTICS	Office of Naval Research Ocean Optics
OOFASH	Oceanographic Observations of Fisheries at the Adjacent Seas of Hokkaido
OPUS	Observations of Persistent Upwelling Structures
OTEC	Ocean Thermal Energy Conversion
OTTER	Oregon Transect Ecosystem Research Project
PACS	Pan-American Climate Studies
PAGES	Past Global Changes Project
PALEOMAP	PALEOMAP Project
PARCA	Program in Arctic Regional Climate Assessment
PCMDI	Program for Climate Model Diagnoses and Intercomparison
PFSFC	Project on the Forecast of Sea and Fishing Conditions
PMV	Plume Model Validation and Development Study
PNRA	Programma Nazionale di Ricerche in Antartide
POLYMODE	
PRECP-V	Processing of Emissions by Clouds and Radiation V
PREOPERATIONAL SURVEY OF A DUMP	Preoperational Survey of a Dumping Site of Low-Level Radioactive Wastes
PRIRODA	PRIRODA International Scientific Remote Sensing Project
PRISM	Pleistocene, Research, Interpretation, and Synoptic Mapping Project
PRISM/OCS	Parameter-elevation Regressions on Independent Slopes
PROBE	Pilot Radiation Observation Experiment
PROBES	Processes and Resources of the Bering Sea Shelf
PTP	Pamir-Tianshan Project
PYS	Project of Yatsushiro Sea
RADAM	
RECURSOS_MINERALES	
RITS 89	Radiatively Important Trace Species 1989
ROME	

Valids	Description
<i>ROSE</i>	<i>Rural Oxidant in a Southern Environment</i>
<i>RSS</i>	<i>Reflection Seismic Survey</i>
<i>SAGA</i>	<i>Andes Project</i>
<i>SAGA II/III</i>	<i>Soviet/American Gas and Aerosol Expedition</i>
<i>SAGE I</i>	<i>Stratospheric Aerosol and Gas Experiment I</i>
<i>SAGE II</i>	<i>Stratospheric Aerosol and Gas Experiment II</i>
<i>SAHEL_NAFR</i>	<i>Sahelian and NW Africa 14-Day NDVI Composites</i>
<i>SAM-II</i>	<i>Stratospheric Aerosol Measurement II</i>
<i>SAR</i>	<i>Species At Risk</i>
<i>SBC/SMB</i>	<i>Santa Barbara Channel/Santa Marine Basin Study</i>
<i>SBCS</i>	<i>Santa Barbara Channel Study</i>
<i>SCAR_A</i>	<i>Sulfates, Clouds and Radiation America</i>
<i>SCAR-B</i>	<i>Smoke, Clouds, and Radiation - Brazil</i>
<i>SCENES</i>	<i>Subregional Cooperative Electric Utility, NPS and EPA Study</i>
<i>SCTS</i>	<i>Southern California Transport Study</i>
<i>SEATAR</i>	<i>Studies of East Asia Tectonics and Resources</i>
<i>SEDBAS</i>	<i>Sedimentary Basins</i>
<i>SESAME</i>	<i>Second European Stratospheric Arctic and Mid-Latitude Experiment</i>
<i>SEQUAL</i>	<i>Seasonal Response of the Equatorial Atlantic</i>
<i>SICPP</i>	<i>Seasonal-to-Interannual Climate Prediction Program</i>
<i>SIZEX</i>	<i>Seasonal Ice Zone Experiment</i>
<i>SJVAQS</i>	<i>San Joaquin Valley Air Quality Study</i>
<i>SMILE</i>	<i>Shelf Mixed Layer Experiment</i>
<i>SNF</i>	<i>Superior National Forest</i>
<i>SO-FIA</i>	<i>Southern Forest Experiment Station/Forest Inventory and Analysis</i>
<i>SOS</i>	<i>Southern Oxidants Study</i>
<i>SOUTH.CAL.OCS BASELINE</i>	
<i>SPARCE</i>	<i>Schools of the Pacific Rainfall Climate Experiment</i>
<i>SPECMAP</i>	
<i>SPECTRE</i>	<i>Spectral Radiance Experiment</i>
<i>SPREX</i>	<i>Spring Removal Experiment</i>
<i>SRB</i>	<i>Surface Radiation Budget</i>
<i>SSE</i>	<i>Surface Solar Energy</i>
<i>SSEOP</i>	<i>Space Shuttle Earth Photographs Observation Project</i>
<i>STACS</i>	
<i>STARDUST</i>	
<i>STEP</i>	<i>Stratosphere-Troposphere Exchange Project</i>
<i>STERNA92</i>	
<i>STLHBA</i>	<i>Submarine Topography of Lutzow-Holm Bay, Antarctica</i>
<i>STORM-FEST</i>	<i>STORM-Fronts Experiment Systems Test</i>
<i>STRAT</i>	<i>Stratospheric TRacers of Atmospheric Transport Mission</i>
<i>STREX</i>	<i>Storm Transfer and Response Experiment</i>

Valid	Description
<i>SUCCESS</i>	<i>Subsonic Aircraft Contrail and Cloud Effects Special Study</i>
<i>SURE</i>	<i>Sulfate Regional Experiment</i>
<i>SWAMP</i>	<i>Southwest Area Monsoon Project</i>
<i>TARFOX</i>	<i>Tropospheric Aerosol Radiative Forcing Observational Experiment</i>
<i>TBS</i>	
<i>TCM-90</i>	<i>Tropical Cyclone Motion</i>
<i>TIWE</i>	<i>Tropical Instability Wave Experiment</i>
<i>TOGA</i>	<i>Tropical Ocean Global Atmosphere</i>
<i>TOGA COARE</i>	<i>TOGA Coupled Ocean Atmosphere Response Experiment</i>
<i>TOVS PATHFINDER</i>	<i>TOVS Path A</i>
<i>TRANPAT</i>	<i>Antarctic Peninsula Magnetotelluric Transects</i>
<i>TRANSPAC</i>	
<i>TTO</i>	<i>Transient Tracers Oceans Experiment</i>
<i>TWERLE</i>	
<i>UAPSP</i>	<i>Utility Acid Precipitation Study Program</i>
<i>UARS</i>	<i>Upper Atmosphere Research Satellite</i>
<i>UK CLIMATE RESEARCH PROGRAMME</i>	
<i>UNEP/GRID</i>	<i>UNEP/Global Resources Information Database</i>
<i>USAC</i>	<i>Airbone Magnetism and Gravity in Weddell Sea, Antarctica</i>
<i>USARP</i>	<i>U.S. Antarctic Research Program</i>
<i>USDA/UVB</i>	<i>USDA UV-B Radiation Monitoring Program</i>
<i>USGS/EDC/SAST</i>	<i>USGS EDC Scientific Assessment and Strategy Team</i>
<i>VIVALDI91</i>	
<i>VOCAR</i>	<i>Variability of Coastal Atmospheric Refraction</i>
<i>WAMEX</i>	<i>West African Monsoon Experiment</i>
<i>WATOX</i>	<i>Western Atlantic Ocean Experiment</i>
<i>WCRP</i>	<i>World Climate Research Program</i>
<i>WDC-C2/IONOSPHERE</i>	<i>World Data Center-C2 for Ionosphere</i>
<i>WEPOLEX</i>	<i>Weddell Polynya Expedition</i>
<i>WETNET</i>	
<i>WINCE</i>	<i>Winter Cloud Experiment</i>
<i>WISC</i>	<i>Wisconsin Acid Deposition Monitoring Network</i>
<i>WISP</i>	<i>Winter Icing and Storms Project</i>
<i>WOCE</i>	<i>World Ocean Circulation Experiment</i>
<i>WQRSBMP</i>	<i>Water Quality Research of Shizugawa Bay of Miyagi Prefecture</i>
<i>WW2010</i>	<i>The Weather World 2010</i>
<i>WWCA</i>	<i>World Water and Climate Atlas</i>

3.32 Role

Description: The role of a person for the collection.

Sources: CIP defined

Default Valid:

Valid
Administrator
Technical
Investigator

3.33 Scale

Description: The scaling used for the data (e.g. map).

Sources: [CEO]

Default Valid:

Valid
> 1:500
> 1:500-1:5 000
> 1:5 000-1:10 000
> 1:10 000-1:25 000
> 1:25 000-1:50 000
> 1:50 000-1:100 000
> 1:100 000-1:250 000
> 1:250 000-1:500 000
> 1:500 000-1:1 000 000
> < 1:1 000 000

3.34 ScienceReviewStatus

Description: Type of review which occurred on the Science Review Date.

Sources: TBD

Default Valid:

3.35 SensorIdentifier/SensorName

Description (SensorIdentifier): A mnemonic or otherwise abbreviated version (acronym) for the sensor.

Description (SensorName): A text string (not acronym) defining the sensor name Sources: TBD

Default Valid:

3.36 SensorMode

Description: Specific mode of the sensor.

Sources: TBD

Default Valid:

3.37 SpatialKeyword

Description: The spatial keywords provide the capability of selecting place names to be used as search parameters, usually as an alternative to specifying latitudes and longitudes (which may not apply in some disciplines). For example, 'Tropical Region', 'Atlantic Ocean'.

Sources: [GCMD Location Keywords]

Default Valid:

Validates
<i>Global</i>
<i>Global Land</i>
<i>Global Ocean</i>
<i>Polar</i>
<i>Antarctica</i>
<i>Arctic</i>
<i>Mid-Latitude</i>
<i>Equatorial</i>
<i>Southern Hemisphere</i>
<i>Western Hemisphere</i>
<i>Eastern Hemisphere</i>
<i>Northern Hemisphere</i>
<i>Africa</i>
<i>Southern Africa</i>
<i>West Africa</i>
<i>Central Africa</i>
<i>East Africa</i>
<i>Sahel</i>
<i>North Africa</i>
<i>Asia</i>
<i>Southern Asia</i>
<i>Southeast Asia</i>
<i>Western Asia</i>
<i>Central Asia</i>
<i>Eastern Asia</i>
<i>Europe</i>

Valids
<i>Southern Europe</i>
<i>Western Europe</i>
<i>Central Europe</i>
<i>Eastern Europe</i>
<i>Northern Europe</i>
<i>Eurasia</i>
<i>Middle East</i>
<i>Oceania</i>
<i>Australia</i>
<i>South America</i>
<i>Central America</i>
<i>Caribbean</i>
<i>North America</i>
<i>Afghanistan</i>
<i>Albania</i>
<i>Algeria</i>
<i>American Samoa</i>
<i>Andorra</i>
<i>Angola</i>
<i>Anguilla</i>
<i>Antigua and Barbuda</i>
<i>Argentina</i>
<i>Armenia</i>
<i>Aruba</i>
<i>Ascension Island</i>
<i>Azores</i>
<i>Australia</i>
<i>Austria</i>
<i>Azerbaijan</i>
<i>Bahamas</i>
<i>Bahrain</i>
<i>Bangladesh</i>
<i>Barbados</i>
<i>Belarus</i>
<i>Belgium</i>
<i>Belize</i>
<i>Benin</i>
<i>Bermuda</i>
<i>Bhutan</i>
<i>Bolivia</i>
<i>Bonaire</i>

Validations
<i>Bosnia and Herzegovina</i>
<i>Botswana</i>
<i>Bouvet Island</i>
<i>Brazil</i>
<i>Brunei Darussalam</i>
<i>Bulgaria</i>
<i>Burkina Faso</i>
<i>Burundi</i>
<i>Cameroon</i>
<i>Canada</i>
<i>Canary Islands</i>
<i>Cape Verde</i>
<i>Cayman Islands</i>
<i>Central African Republic</i>
<i>Ceuta</i>
<i>Chad</i>
<i>Channel Islands</i>
<i>Chile</i>
<i>China</i>
<i>Christmas Island</i>
<i>Cocos Islands</i>
<i>Colombia</i>
<i>Comoros</i>
<i>Congo</i>
<i>Cook Islands</i>
<i>Corsica</i>
<i>Costa Rica</i>
<i>Cote d'Ivoire</i>
<i>Croatia</i>
<i>Cuba</i>
<i>Curacao</i>
<i>Cyprus</i>
<i>Czech Republic</i>
<i>Denmark</i>
<i>Djibouti</i>
<i>Dominica</i>
<i>Dominican Republic</i>
<i>Ecuador</i>
<i>Egypt</i>
<i>El Salvador</i>
<i>Equatorial Guinea</i>
<i>Eritrea</i>

Validations
<i>Estonia</i>
<i>Ethiopia</i>
<i>Falkland Islands</i>
<i>Faeroe Islands</i>
<i>Fiji</i>
<i>Finland</i>
<i>France</i>
<i>French Guiana</i>
<i>French Polynesia</i>
<i>Gabon</i>
<i>Gambia</i>
<i>Georgia</i>
<i>Germany</i>
<i>Ghana</i>
<i>Gibraltar</i>
<i>Gough Island</i>
<i>Greece</i>
<i>Greenland</i>
<i>Grenada</i>
<i>Guadeloupe</i>
<i>Guam</i>
<i>Guatemala</i>
<i>Guinea</i>
<i>Guinea-Bissau</i>
<i>Guyana</i>
<i>Haiti</i>
<i>Hawaiian Islands</i>
<i>Honduras</i>
<i>Hungary</i>
<i>Iceland</i>
<i>India</i>
<i>Indonesia</i>
<i>Iran</i>
<i>Iraq</i>
<i>Ireland</i>
<i>Israel</i>
<i>Italy</i>
<i>Jamaica</i>
<i>Japan</i>
<i>Jordan</i>
<i>Kampuchea</i>
<i>Kazakhstan</i>

Validates
<i>Kenya</i>
<i>Kiribati</i>
<i>Korea, DPR</i>
<i>Korea, Republic</i>
<i>Kuwait</i>
<i>Kyrgyzstan</i>
<i>Laos</i>
<i>Latvia</i>
<i>Lebanon</i>
<i>Lesotho</i>
<i>Liberia</i>
<i>Libya</i>
<i>Liechtenstein</i>
<i>Lithuania</i>
<i>Luxembourg</i>
<i>Macao</i>
<i>Macedonia, FYR</i>
<i>Macquarie Island</i>
<i>Madagascar</i>
<i>Madeira</i>
<i>Malawi</i>
<i>Malaysia</i>
<i>Maldives</i>
<i>Mali</i>
<i>Malta</i>
<i>Marshall Islands</i>
<i>Martinique</i>
<i>Mauritania</i>
<i>Mauritius</i>
<i>Mexico</i>
<i>Micronesia</i>
<i>Moldova</i>
<i>Monaco</i>
<i>Mongolia</i>
<i>Montserrat</i>
<i>Morocco</i>
<i>Mozambique</i>
<i>Myanmar</i>
<i>Namibia</i>
<i>Nauru</i>
<i>Nepal</i>
<i>Netherlands</i>

Valids
<i>New Caledonia</i>
<i>New Zealand</i>
<i>Nicaragua</i>
<i>Niger</i>
<i>Nigeria</i>
<i>Niue</i>
<i>Norfolk Island</i>
<i>Norway</i>
<i>Northern Mariana Islands</i>
<i>Okinawa</i>
<i>Oman</i>
<i>Pakistan</i>
<i>Palau</i>
<i>Panama</i>
<i>Papua New Guinea</i>
<i>Paraguay</i>
<i>Peru</i>
<i>Philippines</i>
<i>Pitcairn Island</i>
<i>Poland</i>
<i>Portugal</i>
<i>Puerto Rico</i>
<i>Qatar</i>
<i>Reunion</i>
<i>Romania</i>
<i>Russian Federation</i>
<i>Rwanda</i>
<i>Saba</i>
<i>San Marino</i>
<i>Sao Tome and Principe</i>
<i>Sardinia</i>
<i>Saudi Arabia</i>
<i>Senegal</i>
<i>Seychelles</i>
<i>Sicily</i>
<i>Sierra Leone</i>
<i>Singapore</i>
<i>Slovakia</i>
<i>Slovenia</i>
<i>Solomon Islands</i>
<i>Somalia</i>
<i>South Africa</i>

Valids
<i>South Georgia Island</i>
<i>South Orkney Islands</i>
<i>South Sandwich Islands</i>
<i>South Shetland Islands</i>
<i>Spain</i>
<i>Sri Lanka</i>
<i>St Barthelemy</i>
<i>St Eustatius</i>
<i>St Helena</i>
<i>St Kitts and Nevis</i>
<i>St Lucia</i>
<i>St Maarten</i>
<i>St Martin</i>
<i>St Pierre and Miquelon</i>
<i>St Vincent and the Grenadines</i>
<i>Sudan</i>
<i>Suriname</i>
<i>Svalbard</i>
<i>Swaziland</i>
<i>Sweden</i>
<i>Switzerland</i>
<i>Syria</i>
<i>Taiwan</i>
<i>Tajikistan</i>
<i>Tanzania</i>
<i>Thailand</i>
<i>Togo</i>
<i>Tokelau</i>
<i>Tonga</i>
<i>Trinidad and Tobago</i>
<i>Tristan da Cunha</i>
<i>Tunisia</i>
<i>Turkey</i>
<i>Turkmenistan</i>
<i>Turks and Caicos Islands</i>
<i>Tuvalu</i>
<i>Uganda</i>
<i>Ukraine</i>
<i>United Arab Emirates</i>
<i>United Kingdom</i>
<i>United States of America</i>
<i>Uruguay</i>

Validates
<i>Uzbekistan</i>
<i>Vanuatu</i>
<i>Vatican City</i>
<i>Venezuela</i>
<i>Viet Nam</i>
<i>Virgin Islands</i>
<i>Wake Island</i>
<i>Wallis and Futuna Islands</i>
<i>Western Samoa</i>
<i>Yemen</i>
<i>Yugoslavia</i>
<i>Zaire</i>
<i>Zambia</i>
<i>Zanzibar</i>
<i>Zimbabwe</i>
<i>Atlantic Ocean</i>
<i>North Atlantic Ocean</i>
<i>South Atlantic Ocean</i>
<i>Arctic Ocean</i>
<i>Indian Ocean</i>
<i>Pacific Ocean</i>
<i>North Pacific Ocean</i>
<i>South Pacific Ocean</i>
<i>Southern Ocean</i>
<i>Arabian Sea</i>
<i>Baltic Sea</i>
<i>Bering Sea</i>
<i>Black Sea</i>
<i>Caribbean Sea</i>
<i>East China Sea</i>
<i>Gulf of Alaska</i>
<i>Gulf of Mexico</i>
<i>Hudson Bay</i>
<i>Mediterranean Sea</i>
<i>North Sea</i>
<i>Persian Gulf</i>
<i>Red Sea</i>
<i>Sea of Okhotsk</i>
<i>Sea of Japan</i>
<i>South China Sea</i>

Validates
<i>Yellow Sea</i>
<i>Aral Sea</i>
<i>Caspian Sea</i>
<i>Great Bear Lake</i>
<i>Great Slave Lake</i>
<i>Great Lakes</i>
<i>Lake Baykal</i>
<i>Lake Chad</i>
<i>Lake Malawi</i>
<i>Lake Tanganyika</i>
<i>Lake Victoria</i>
<i>Core</i>
<i>Mantle</i>
<i>Crust</i>
<i>Sea Floor</i>
<i>Sea Surface</i>
<i>Land Surface</i>
<i>Boundary Layer</i>
<i>Troposphere</i>
<i>Stratosphere</i>
<i>Mesosphere</i>
<i>Thermosphere</i>
<i>Ionosphere</i>
<i>Chromosphere</i>
<i>Corona</i>
<i>High Latitude Magnetosphere</i>
<i>Inner Magnetosphere</i>
<i>Magnetosphere (other)</i>
<i>Magnetotail</i>
<i>Photosphere</i>

3.38 Spatial Keywords Thesaurus

Description: Reference to the thesaurus used for the spatial keywords.

Sources: CIP defined

Default Valid:

Validates
<i>GCMD Location Keywords</i>

3.39 SpatialResolution

Description: The minimum distance between two adjacent geographic points.

Sources: [CEO]

Default Valid:

Valid
< 3 meters
3-10 meters
10-30 meters
30-100 meters
100-1 000 meters
> 1 000 meters

3.40 StorageMedium

Description: Type of medium on which the data is currently stored.

Sources: [FGDC *Source Media*] ECS

Default Valid:

Valid
<i>paper</i>
<i>stable-base material</i>
<i>microfiche</i>
<i>microfilm</i>
<i>audiocassette</i>
<i>chart</i>
<i>filmstrip</i>
<i>transparency</i>
<i>videocassette</i>
<i>videodisc</i>
<i>videotape</i>
<i>physical model</i>
<i>computer program</i>
<i>disc</i>
<i>cartridge tape</i>
<i>magnetic tape</i>
<i>online</i>
<i>CD-ROM</i>

Valid
<i>electronic bulletin board</i>
<i>electronic mail system</i>
<i>35mm Slides</i>
<i>HardcopyPlats</i>
<i>Magnetic Discs</i>

3.41 TemporalKeyword

Description: The name of a time period covered by a collection. For example, Summer'

Sources: [ECS]

Default Valid:

Valid
Cambrian
Carboniferous
Cenozoic
Cretaceous
Devonian
Eocene
Holocene
Jurassic
Mesozoic
Miocene
Oligocene
Ordovician
Paleocene
Paleozoic
Permian
Pleistocene
Pliocene
Precambrian
Quaternary
Silurian
Tertiary
Triassic

3.42 TemporalKeywordsThesaurus

Description: Reference to the thesaurus used for the temporal keywords

Sources: CIP defined

Default Valid:

Validates
<i>ECS Temporal Keywords</i>

3.43 TemporalResolution

Description: The temporal frequency of data sampled.

Sources: TBD

Default Valid:

3.44 ThemeKeyword

Description: Controlled keyword list to define the theme (e.g. discipline, topic) covered by a collection

Sources: [GCMD *Parameter Keywords*]

Default Valid:

The following four-level keyword list selected is inserted in the ThemeKeyword. The different levels are separated by “.”

CATEGORY	TOPIC	TERM	VARIABLE
EARTH SCIENCE	ATMOSPHERE	Aerosols	<i>Aerosol Backscatter</i>
			<i>Aerosol Extinction</i>
			<i>Aerosol Particle Properties</i>
			<i>Aerosol Radiance</i>
			<i>Carbonaceous Aerosols</i>
			<i>Cloud Condensation Nuclei</i>
			<i>Dust/Ash</i>
			<i>Nitrate Particles</i>
			<i>Organic Particles</i>
			<i>Particulate Matter</i>
		Air Quality	<i>Sulfate Particles</i>
			<i>Carbon Monoxide</i>
			<i>Emissions</i>
			<i>Lead</i>
			<i>Nitrogen Oxides</i>
			<i>Particulates</i>
			<i>Smog</i>
			<i>Sulfur Oxides</i>
			<i>Tropospheric Ozone</i>

Altitude	<i>Turbidity</i>
	<i>Visibility</i>
	<i>Volatile Organic Compounds</i>
	<i>Barometric Altitude</i>
	<i>Geopotential Height</i>
	<i>Ground Height</i>
	<i>Mixing Height</i>
	<i>Station Height</i>
	<i>Stratopause</i>
	<i>Tropopause</i>
Atmospheric Chemistry	<i>Carbon Dioxide</i>
	<i>Carbon Monoxide</i>
	<i>Carbonyl Sulfide</i>
	<i>Chlorine Monoxide</i>
	<i>Chlorofluorocarbons</i>
	<i>Dimethyl Sulfide</i>
	<i>Halocarbons</i>
	<i>Hydrochlorofluorocarbons</i>
	<i>Hydrofluorocarbons</i>
	<i>Hydroxyl</i>
	<i>Methane</i>
	<i>Nitric Acid</i>
	<i>Nitrogen</i>
	<i>Nitrogen Dioxide</i>
	<i>Nitrogen Oxides</i>
	<i>Nitrous Oxide</i>
	<i>Non-Methane Hydrocarbons</i>
	<i>Oxygen</i>
	<i>Ozone</i>
	<i>Photolysis Rates</i>
	<i>Sulfur Dioxide</i>
	<i>Sulfur Oxides</i>
	<i>Trace Elements</i>
	<i>Trace Gases</i>
Atmospheric Phenomena	<i>Volatile Organic Compounds</i>
	<i>Cyclones</i>
	<i>Drought</i>
	<i>Freeze</i>
	<i>Frost</i>
	<i>Hurricanes</i>
	<i>Lightning</i>
	<i>Monsoons</i>
	<i>Storms</i>
	<i>Tornados</i>
	<i>Typhoons</i>

Atmospheric Pressure	<i>Anticyclones/Cyclones</i> <i>Atmospheric Pressure</i> <i>Differential Pressure</i> <i>Gravity Wave</i> <i>Hydrostatic Pressure</i> <i>Oscillations</i> <i>Planetary Boundary Layer</i> <i>Pressure Anomalies</i> <i>Pressure Tendency</i> <i>Pressure Thickness</i> <i>Sea Level Pressure</i> <i>Static Pressure</i> <i>Surface Pressure</i>
Atmospheric Temperature	<i>Air Temperature</i> <i>Atmospheric Stability</i> <i>Boundary Layer Temperature</i> <i>Degree Days</i> <i>Deiced Temperature</i> <i>Inversion Height</i> <i>Maximum/Minimum Temperature</i> <i>Potential Temperature</i> <i>Skin Temperature</i> <i>Static Temperature</i> <i>Surface Air Temperature</i> <i>Temperature Anomalies</i> <i>Virtual Temperature</i>
Atmospheric Water Vapor	<i>Condensation</i> <i>Dew Point</i> <i>Evaporation</i> <i>Evapotranspiration</i> <i>Precipitable Water</i> <i>Sublimation</i> <i>Water Vapor</i>
Atmospheric Winds	<i>Convergence/Divergence</i> <i>Convection</i> <i>Streamfunctions</i> <i>Surface Winds</i> <i>Turbulence</i> <i>Upper Level Winds</i> <i>Vertical Wind Motion</i> <i>Vorticity</i> <i>Wind Chill</i> <i>Wind Shear</i> <i>Wind Stress</i>
Clouds	<i>Cloud Amount</i>

	<i>Cloud Ceiling</i>
	<i>Cloud Condensation Nuclei</i>
	<i>Cloud Emissivity</i>
	<i>Cloud Forcing</i>
	<i>Cloud Height</i>
	<i>Cloud Ice</i>
	<i>Cloud Liquid Water</i>
	<i>Cloud Optical Thickness</i>
	<i>Cloud Precipitable Water</i>
	<i>Cloud Top Pressure</i>
	<i>Cloud Top Temperature</i>
	<i>Cloud Types</i>
	<i>Cloud Vertical Distribution</i>
	<i>Droplet Concentration/Size</i>
	<i>Fog</i>
	<i>Mesoscale Convective Complex</i>
	<i>Nucleation</i>
Precipitation	<i>Acid Rain</i>
	<i>Droplet Size</i>
	<i>Freezing Rain</i>
	<i>Hail</i>
	<i>Liquid Water Equivalent</i>
	<i>Precipitation Amount</i>
	<i>Precipitation Anomalies</i>
	<i>Precipitation Rate</i>
	<i>Rain</i>
	<i>Sleet</i>
	<i>Snow</i>
Radiation Budget	<i>Absorption</i>
	<i>Albedo</i>
	<i>Anisotropy</i>
	<i>Atmospheric Emitted Radiation</i>
	<i>Atmospheric Heating</i>
	<i>Emissivity</i>
	<i>Heat Flux</i>
	<i>Longwave Radiation</i>
	<i>Incoming Shortwave Radiation</i>
	<i>Irradiance</i>
	<i>Net Radiation</i>
	<i>Optical Thickness</i>
	<i>Outgoing Longwave Radiation</i>
	<i>Radiative Flux</i>
	<i>Radiative Forcing</i>
	<i>Reflectance</i>
	<i>Scattering</i>

<i>BIOSPHERE</i>	Aquatic Habitat	<i>Shortwave Radiation</i>
		<i>Solar Radiation</i>
		<i>Sunshine</i>
		<i>Transmittance</i>
		<i>Ultraviolet Radiation</i>
		<i>Benthic Habitat</i>
		<i>Coastal Habitat</i>
		<i>Estuarine Habitat</i>
		<i>Lakes</i>
		<i>Pelagic Habitat</i>
Ecological Dynamics		<i>Reef Habitat</i>
		<i>Rivers/Stream Habitat</i>
		<i>Saline Lakes</i>
		<i>Adaptation</i>
		<i>Bioaccumulation</i>
		<i>Bioavailability</i>
		<i>Biogeochemical Cycles</i>
		<i>Bioluminescence</i>
		<i>Biomass</i>
		<i>Chemosynthesis</i>
		<i>Community Structure</i>
		<i>Competition</i>
		<i>Consumption</i>
		<i>Decomposition</i>
		<i>Diurnal Movements</i>
		<i>Dominance</i>
		<i>Endangered Species</i>
		<i>Excretion</i>
		<i>Extinction</i>
		<i>Feeding Habitat</i>
		<i>Fire Characteristics</i>
		<i>Fire Occurance</i>
		<i>Food-web Dynamics</i>
		<i>Herbivory</i>
		<i>Life History</i>
		<i>Migratory Rates/Routes</i>
		<i>Mutation</i>
		<i>Mutualism</i>
		<i>Nutrient Cycling</i>
		<i>Oxygen Demand</i>
		<i>Parasitism</i>
		<i>Photosynthesis</i>
		<i>Population Dynamics</i>
		<i>Post-Breeding</i>
		<i>Predation</i>

	<i>Primary Production</i>
	<i>Range Changes</i>
	<i>Respiration</i>
	<i>Scavenging</i>
	<i>Secondary Production</i>
	<i>Selection</i>
	<i>Succession</i>
	<i>Survival</i>
	<i>Symbiosis</i>
	<i>Toxicity</i>
	<i>Trophic Dynamics</i>
Fungi	<i>Biomass</i>
	<i>Molds</i>
	<i>Mushrooms</i>
	<i>Slime molds</i>
	<i>Sporozoans</i>
	<i>Yeast</i>
Microbiota	<i>Amoebae</i>
	<i>Bacteria</i>
	<i>Biomass</i>
	<i>Blue-Green Algae</i>
	<i>Chlorophyll</i>
	<i>Ciliates</i>
	<i>Coccolithophore</i>
	<i>Diatoms</i>
	<i>Flagellates</i>
	<i>Foraminifers</i>
	<i>Microalgae</i>
	<i>Microphyte</i>
	<i>Phytoplankton</i>
	<i>Pigments</i>
	<i>Plankton</i>
	<i>Protist</i>
	<i>Radiolarians</i>
	<i>Zooplankton</i>
Terrestrial Habitat	<i>Agricultural Land</i>
	<i>Alpine/Tundra</i>
	<i>Beaches</i>
	<i>Caves</i>
	<i>Desert</i>
	<i>Dunes</i>
	<i>Forest Habitat</i>
	<i>Grassland</i>
	<i>Islands</i>
	<i>Montane Habitat</i>

Vegetation	<i>Savanna</i>
	<i>Shrubland/Scrub</i>
	<i>Sinkholes</i>
	<i>Urban Land</i>
	<i>Wetlands</i>
	<i>Algae</i>
	<i>Biomass</i>
	<i>Canopy Characteristics</i>
	<i>Carbon</i>
	<i>Chlorophyll</i>
	<i>Conifers</i>
	<i>Crops</i>
	<i>Crown</i>
	<i>Deciduous Vegetation</i>
	<i>Domesticated Plants</i>
	<i>Dominant Species</i>
	<i>Exotic Vegetation</i>
	<i>Ferns</i>
	<i>Flowering Plants</i>
	<i>Forest Composition/Structure</i>
	<i>Herbivory</i>
	<i>Importance Value</i>
	<i>Indigenous Vegetation</i>
	<i>Leaf Characteristics</i>
	<i>Lichens</i>
	<i>Litter Characteristics</i>
	<i>Macroalgae</i>
	<i>Macrophyte</i>
	<i>Mosses</i>
	<i>Nitrogen</i>
	<i>Nutrients</i>
	<i>Phosphorus</i>
	<i>Photosynth. Active Radiation</i>
	<i>Phytoplankton</i>
	<i>Pigments</i>
	<i>Plant Characteristics</i>
	<i>Pollen</i>
	<i>Tree Rings</i>
	<i>Vegetation Cover</i>
	<i>Vegetation Index</i>
	<i>Vegetation Species</i>
Wetlands	<i>Estuarine Wetlands</i>
	<i>Lacustrine Wetlands</i>
	<i>Marine</i>
	<i>Marshes</i>

		<i>Palustrine Wetlands</i>
		<i>Peatlands</i>
		<i>Riparian Wetlands</i>
		<i>Swamps</i>
	<i>Zoology</i>	<i>Amphibians</i>
		<i>Anemones</i>
		<i>Arachnids</i>
		<i>Arthropods</i>
		<i>Biomass</i>
		<i>Birds</i>
		<i>Centipedes</i>
		<i>Corals</i>
		<i>Crustaceans</i>
		<i>Domesticated Animals</i>
		<i>Echinoderms</i>
		<i>Exotic Species</i>
		<i>Fish</i>
		<i>Flatworms</i>
		<i>Indigenous Species</i>
		<i>Insects</i>
		<i>Invertebrates</i>
		<i>Jellyfish</i>
		<i>Mammals</i>
		<i>Millipedes</i>
		<i>Molluscs</i>
		<i>Reptiles</i>
		<i>Roundworms</i>
		<i>Segmented worms</i>
		<i>Sponges</i>
		<i>Vertebrates</i>
		<i>Zooplankton</i>
<i>CRYOSPHERE</i>	<i>Snow/Ice</i>	<i>Ablation</i>
		<i>Avalanche</i>
		<i>Depth Hoar</i>
		<i>Freeze/Thaw</i>
		<i>Frost</i>
		<i>Glaciers</i>
		<i>Ice Depth/Thickness</i>
		<i>Ice Extent</i>
		<i>Ice Growth/Melt</i>
		<i>Ice Sheet Elevation</i>
		<i>Ice Sheets</i>
		<i>Ice Velocity</i>
		<i>Lake Ice</i>
		<i>Permafrost</i>

		<i>River Ice</i>
		<i>Snow Cover</i>
		<i>Snow Depth</i>
		<i>Snow Energy Balance</i>
		<i>Snow Facies</i>
		<i>Snow Melt</i>
		<i>Snow Water Equivalent</i>
		<i>Snow/Ice Temperature</i>
		<i>Whiteout</i>
	Sea Ice	<i>Brine Production</i>
		<i>Divergence</i>
		<i>Heat Flux</i>
		<i>Ice Age</i>
		<i>Ice Compactness</i>
		<i>Ice Concentration</i>
		<i>Ice Deformation</i>
		<i>Ice Depth/Thickness</i>
		<i>Ice Drift</i>
		<i>Ice Edges</i>
		<i>Ice Extent</i>
		<i>Ice Floes</i>
		<i>Ice Growth/Melt</i>
		<i>Ice Motion</i>
		<i>Ice Pack</i>
		<i>Ice Roughness</i>
		<i>Ice Temperature</i>
		<i>Ice Types</i>
		<i>Ice Velocity</i>
		<i>Icebergs</i>
		<i>Leads</i>
		<i>Polynyas</i>
<i>HUMAN DIMENSIONS</i>	Attitudes, Preferences, Behavior	<i>Consumer Behavior</i>
		<i>Social Behavior</i>
	Boundaries	<i>Administrative Divisions</i>
		<i>Political Divisions</i>
		<i>Surveys</i>
	Environmental Effects	<i>Acid Deposition</i>
		<i>Agriculture</i>
		<i>Aquaculture</i>
		<i>Biomass Burning</i>
		<i>Contaminants</i>
		<i>Deforestation</i>
		<i>Desertification</i>
		<i>Eutrophication</i>
		<i>Food Production</i>

			<i>Fossil Fuel Burning</i>
			<i>Gas Flaring</i>
			<i>Heavy Metals</i>
			<i>Industrial Emissions</i>
			<i>Industrialization</i>
			<i>Irrigation</i>
			<i>Mine Drainage</i>
			<i>Nuclear Radiation</i>
			<i>Oil Spill</i>
			<i>Reforestation</i>
			<i>Restoration</i>
			<i>Sewage</i>
			<i>Urbanization</i>
			<i>Water Management</i>
	Human Health		<i>Anatomical Parameters</i>
			<i>Diseases</i>
			<i>Physiological Parameters</i>
			<i>Public Health</i>
			<i>Vital Statistics</i>
	Infrastructure		<i>Buildings</i>
			<i>Communications</i>
			<i>Cultural Features</i>
			<i>Electricity</i>
			<i>Pipelines</i>
			<i>Transportation</i>
HYDROSPHERE	Ground Water		<i>Aquifers</i>
			<i>Discharge/Flow</i>
			<i>Dispersion</i>
			<i>Drainage</i>
			<i>Groundwater Chemistry</i>
			<i>Groundwater Quality</i>
			<i>Infiltration</i>
			<i>Land Subsidence</i>
			<i>Percolation</i>
			<i>Saltwater Intrusion</i>
			<i>Springs</i>
			<i>Water Table</i>
	Snow/Ice		<i>Ablation</i>
			<i>Avalanche</i>
			<i>Depth Hoar</i>
			<i>Freeze/Thaw</i>
			<i>Frost</i>
			<i>Glaciers</i>
			<i>Ice Depth/Thickness</i>
			<i>Ice Extent</i>

Surface Water	<i>Ice Growth/Melt</i>
	<i>Ice Sheet Elevation</i>
	<i>Ice Sheets</i>
	<i>Ice Velocity</i>
	<i>Lake Ice</i>
	<i>Permafrost</i>
	<i>River Ice</i>
	<i>Snow Cover</i>
	<i>Snow Depth</i>
	<i>Snow Energy Balance</i>
	<i>Snow Facies</i>
	<i>Snow Melt</i>
	<i>Snow Water Equivalent</i>
	<i>Snow/Ice Temperature</i>
	<i>Whiteout</i>
	<i>Aquifer Recharge</i>
	<i>Carbon Dioxide</i>
	<i>Discharge/Flow</i>
	<i>Drainage</i>
	<i>Floods</i>
	<i>Hydropattern</i>
	<i>Hydroperiod</i>
Water Quality	<i>Inundation</i>
	<i>Lakes</i>
	<i>Nitrous Oxide</i>
	<i>Rivers/Streams</i>
	<i>Runoff</i>
	<i>Stage Height</i>
	<i>Stream Chemistry</i>
	<i>Total Surface Water</i>
	<i>Water Channels</i>
	<i>Water Depth</i>
	<i>Water Yield</i>
	<i>Wetlands</i>
	<i>Acid Deposition</i>
	<i>Alkalinity</i>
	<i>Benthic Index</i>
	<i>Carcinogens</i>
	<i>Chlorophyll</i>
	<i>Conductivity</i>
	<i>Contaminants</i>
	<i>Dissolved Gases</i>
	<i>Dissolved Solids</i>
	<i>Hydrocarbons</i>
	<i>Inorganic Matter</i>

		<i>Light Transmission</i>
		<i>Nitrogen Compounds</i>
		<i>Nutrients</i>
		<i>Organic Matter</i>
		<i>Oxygen</i>
		<i>pH</i>
		<i>Radioisotopes</i>
		<i>Suspended Solids</i>
		<i>Toxic Chemicals</i>
		<i>Trace Metals</i>
		<i>Turbidity</i>
		<i>Water Temperature</i>
<i>LAND SURFACE</i>	<i>Erosion/Sedimentation</i>	<i>Degradation</i>
		<i>Entrainment</i>
		<i>Erosion</i>
		<i>Landslides</i>
		<i>Sedimentation</i>
		<i>Sediment Chemistry</i>
		<i>Sediment Composition</i>
		<i>Sediment Transport</i>
		<i>Stratigraphic Sequence</i>
		<i>Suspended Solids</i>
		<i>Weathering</i>
	<i>Land Temperature</i>	<i>Land Heat Capacity</i>
		<i>Skin Temperature</i>
		<i>Land Surface Temperature</i>
	<i>Land Use/Land Cover</i>	<i>Land Classes</i>
		<i>Land Cover</i>
		<i>Land Management</i>
		<i>Land Productivity</i>
		<i>Land Resources</i>
		<i>Land Tenure</i>
	<i>Soils</i>	<i>Alkalinity</i>
		<i>Dendrication Rate</i>
		<i>Hydraulic Conductivity</i>
		<i>Organic Matter</i>
		<i>Permafrost</i>
		<i>Soil Absorption</i>
		<i>Soil Bulk Density</i>
		<i>Soil Chemistry</i>
		<i>Soil Color</i>
		<i>Soil Compaction</i>
		<i>Soil Consistence</i>
		<i>Soil Depth</i>
		<i>Soil Fertility</i>

<i>OCEANS</i>		<i>Soil Heat Budget</i>
	<i>Surface Radiative Properties</i>	<i>Soil Horizons/Profile</i>
		<i>Soil Impedance</i>
		<i>Soil Mechanics</i>
		<i>Soil Moisture</i>
		<i>Soil Plasticity</i>
	<i>Topography</i>	<i>Soil Porosity</i>
		<i>Soil Productivity</i>
		<i>Soil Respiration</i>
		<i>Soil Structure</i>
		<i>Soil Temperature</i>
	<i>Bathymetry</i>	<i>Soil Texture</i>
		<i>Soil Types</i>
		<i>Thermal Conductivity</i>
		<i>Emissivity</i>
		<i>Reflectance</i>
	<i>Coastal Processes</i>	<i>Thermal Properties</i>
		<i>Contours</i>
		<i>Landforms</i>
		<i>Relief</i>
		<i>Surface Roughness</i>
		<i>Terrain Elevation</i>
		<i>Water Depth</i>
		<i>Seafloor Topography</i>
		<i>Barrier Islands</i>
		<i>Beaches</i>
		<i>Coastal Elevation</i>
		<i>Coral Reefs</i>
		<i>Deltas</i>
		<i>Dunes</i>
		<i>Erosion</i>
		<i>Estuaries</i>
		<i>Fjords</i>
		<i>Inlets</i>
		<i>Intertidal Zone</i>
		<i>Lagoons</i>
		<i>Local Subsidence Trends</i>
		<i>Longshore Currents</i>
		<i>Mangroves</i>
		<i>Marshes</i>
		<i>Rocky Coasts</i>
		<i>Saltwater Intrusion</i>
		<i>Sea Level Rise</i>
		<i>Sea Surface Height</i>
		<i>Sediment Transport</i>

Marine Geophysics	<i>Sedimentation</i>
	<i>Shoals</i>
	<i>Shoreline Displacement</i>
	<i>Storm Surge</i>
	<i>Shorelines</i>
	<i>Tidal Height</i>
	<i>Abyssal Hills/Plains</i>
	<i>Benthic Heat Flow</i>
	<i>Continental Drift</i>
	<i>Continental Rises/Slopes</i>
	<i>Continental Shelves</i>
	<i>Fracture Zones</i>
	<i>Guyots</i>
	<i>Hydrothermal Vents</i>
	<i>Island Arcs</i>
	<i>Magnetic Anomalies</i>
	<i>Marine Gravity Field</i>
	<i>Marine Magnetism</i>
	<i>Mid-Ocean Ridges</i>
	<i>Ocean Plateaus/Ridges</i>
	<i>Rift Valleys</i>
	<i>Seafloor Spreading</i>
	<i>Seamounts</i>
Marine Sediments	<i>Subduction</i>
	<i>Submarine Canyons</i>
	<i>Trenches</i>
	<i>Bioturbation</i>
	<i>Carbonate Sediments</i>
	<i>Diagenesis</i>
	<i>Evaporites</i>
	<i>Hydrogenous Sediments</i>
	<i>Particle Flux</i>
	<i>Sedimentation</i>
	<i>Sediment Composition</i>
Ocean Acoustics	<i>Sediment Grain Size</i>
	<i>Sediment Transport</i>
	<i>Siliceous Sediments</i>
	<i>Stratigraphic Sequence</i>
	<i>Suspended Solids</i>
	<i>Terrigenous Sediments</i>
	<i>Turbidity</i>
	<i>Acoustic Attenuation</i>
	<i>Acoustic Frequency</i>
	<i>Acoustic Reflectivity</i>
	<i>Acoustic Scattering</i>

Ocean Chemistry	<i>Acoustic Tomography</i>
	<i>Acoustic Velocity</i>
	<i>Ambient Noise</i>
	<i>Alkalinity</i>
	<i>Ammonia</i>
	<i>Biogeochemical Cycles</i>
	<i>Biomedical Chemicals</i>
	<i>Carbon</i>
	<i>Carbon Dioxide</i>
	<i>Carbonate</i>
	<i>Chlorophyll</i>
	<i>Dissolved Gases</i>
	<i>Dissolved Solids</i>
	<i>Hydrocarbons</i>
	<i>Inorganic Carbon</i>
	<i>Inorganic Matter</i>
	<i>Nitrate</i>
	<i>Nitric Acid</i>
	<i>Nitrite</i>
	<i>Nitrogen</i>
	<i>Nitrogen Dioxide</i>
	<i>Nitrous Oxide</i>
	<i>Nutrients</i>
	<i>Ocean Tracers</i>
	<i>Organic Carbon</i>
	<i>Organic Matter</i>
	<i>Oxygen</i>
	<i>pH</i>
	<i>Phosphate</i>
	<i>Pigments</i>
	<i>Radiocarbon</i>
	<i>Radioisotopes</i>
	<i>Silicate</i>
	<i>Stable Isotopes</i>
	<i>Suspended Solids</i>
	<i>Trace Elements</i>
Ocean Circulation	<i>Advection</i>
	<i>Buoy Position</i>
	<i>Convection</i>
	<i>Diffusion</i>
	<i>Downwelling</i>
	<i>Eddies</i>
	<i>Fronts</i>
	<i>Gyres</i>
	<i>Instability</i>

	<i>Kinetic Energy</i>
	<i>Momentum</i>
	<i>Ocean Currents</i>
	<i>Ocean Mixed Layer</i>
	<i>Overturning</i>
	<i>Salt Transport</i>
	<i>Stability</i>
	<i>Thermohaline Circulation</i>
	<i>Turbulence</i>
	<i>Upwelling</i>
	<i>Vorticity</i>
	<i>Water Masses</i>
	<i>Wind-Driven Circulation</i>
Ocean Heat Budget	<i>Advection</i>
	<i>Bowen Ratio</i>
	<i>Condensation</i>
	<i>Conduction</i>
	<i>Convection</i>
	<i>Diffusion</i>
	<i>Evaporation</i>
	<i>Heat Flux</i>
	<i>Heating Rate</i>
	<i>Longwave Radiation</i>
	<i>Shortwave Radiation</i>
Ocean Optics	<i>Aphotic Zone</i>
	<i>Backscatter</i>
	<i>Bioluminescence</i>
	<i>Extinction Coefficients</i>
	<i>Fluorescence</i>
	<i>Gelbstoff</i>
	<i>Irradiance</i>
	<i>Light Attenuation</i>
	<i>Light Transmission</i>
	<i>Ocean Color</i>
	<i>Optical Depth</i>
	<i>Photic Zone</i>
	<i>Photosynth. Active Radiation</i>
	<i>Secchi Depth</i>
	<i>Turbidity</i>
	<i>Water Leaving Radiance</i>
Ocean Pressure	<i>Baroclinic Mode</i>
	<i>Barotropic Mode</i>
	<i>Ocean Pressure</i>
	<i>Sea Level Pressure</i>
Ocean Temperature	<i>Ocean Mixed Layer</i>

	<i>Potential Temperature</i>
	<i>Sea Surface Temperature</i>
	<i>Water Temperature</i>
	<i>Thermocline</i>
Ocean Water Budget	<i>Advection</i>
	<i>Convection</i>
	<i>Convergence/Divergence</i>
	<i>Diffusion</i>
	<i>Fresh Water Flux</i>
Ocean Waves	<i>Fetch</i>
	<i>Internal Waves</i>
	<i>Sea State</i>
	<i>Seiches</i>
	<i>Significant Wave Height</i>
	<i>Surf Beat</i>
	<i>Swells</i>
	<i>Tsunamis</i>
	<i>Wave Speed/Direction</i>
	<i>Wave Frequency</i>
	<i>Wave Height</i>
	<i>Wave Period</i>
	<i>Wave Spectra</i>
	<i>Wave Length</i>
	<i>Wave Types</i>
	<i>Wind Waves</i>
Ocean Winds	<i>Convergence/Divergence</i>
	<i>Surface Winds</i>
	<i>Turbulence</i>
	<i>Vertical Wind Motion</i>
	<i>Vorticity</i>
	<i>Wind Chill</i>
	<i>Wind Shear</i>
	<i>Wind Stress</i>
Salinity/Density	<i>Conductivity</i>
	<i>Density</i>
	<i>Desalinization</i>
	<i>Halocline</i>
	<i>Potential Density</i>
	<i>Pycnocline</i>
	<i>Salinity</i>
	<i>Salt Transport</i>
Sea Ice	<i>Brine Production</i>
	<i>Divergence</i>
	<i>Heat Flux</i>
	<i>Ice Age</i>

		<i>Ice Compactness</i>
		<i>Ice Concentration</i>
		<i>Ice Deformation</i>
		<i>Ice Depth/Thickness</i>
		<i>Ice Drift</i>
		<i>Ice Edges</i>
		<i>Ice Extent</i>
		<i>Ice Floes</i>
		<i>Ice Growth/Melt</i>
		<i>Ice Motion</i>
		<i>Ice Pack</i>
		<i>Ice Roughness</i>
		<i>Ice Temperature</i>
		<i>Ice Types</i>
		<i>Ice Velocity</i>
		<i>Icebergs</i>
		<i>Leads</i>
		<i>Polynyas</i>
	Sea Surface Height	<i>Sea Surface Height</i>
	Tides	<i>Storm Surge</i>
		<i>Tidal Components</i>
		<i>Tidal Currents</i>
		<i>Tidal Height</i>
		<i>Tidal Range</i>
PALEOCLIMATE	Geologic Time	<i>Cambrian</i>
		<i>Carboniferous</i>
		<i>Cenozoic</i>
		<i>Cretaceous</i>
		<i>Devonian</i>
		<i>Eocene</i>
		<i>Holocene</i>
		<i>Jurassic</i>
		<i>Mesozoic</i>
		<i>Miocene</i>
		<i>Oligocene</i>
		<i>Ordovician</i>
		<i>Paleocene</i>
		<i>Paleozoic</i>
		<i>Permian</i>
		<i>Pleistocene</i>
		<i>Pliocene</i>
		<i>Precambrian</i>
		<i>Quaternary</i>
		<i>Silurian</i>
		<i>Tertiary</i>

		Triassic
	Ice Core Records	Carbon Dioxide
		Ice Core Air Bubbles
		Ions
		Isotopes
		Methane
		Nitrous Oxide
		Volcanic Deposits
	Land Records	Cave Deposits
		Glaciation
		Isotopes
		Loess
		Macrofossils
		Microfossils
		Paleomagnetic Data
		Paleosols
		Paleovegetation
		Pollen
		Radiocarbon
		Stratigraphic Sequence
		Tree Rings
		Volcanic Deposits
	Ocean/Lake Records	Coral Deposits
		Isotopes
		Lake Levels
		Macrofossils
		Microfossils
		Oxygen Isotopes
		Paleomagnetic Data
		Radiocarbon
		Sediments
		Stratigraphic Sequence
		Varve Deposits
RADIANCE OR IMAGERY	Gamma Ray	Gamma Ray
	Infrared Wavelengths	Brightness Temperature
		Infrared Flux
		Infrared Imagery
		Reflected Infrared
		Sensor Counts
		Thermal Infrared
	Microwave	Antenna Temperature
		Brightness Temperature
		Microwave Imagery
		Sensor Counts
	Radar	Doppler Speed

<i>SOLAR PHYSICS</i>			<i>Radar Backscatter</i>
			<i>Radar Cross-Section</i>
			<i>Radar Imagery</i>
			<i>Radar Reflectivity</i>
			<i>Sensor Counts</i>
			<i>Sigma Naught</i>
		<i>Radio Wave</i>	<i>Radio Wave</i>
		<i>Ultraviolet Wavelengths</i>	<i>Sensor Counts</i>
			<i>Ultraviolet Flux</i>
		<i>Visible Wavelengths</i>	<i>Sensor Counts</i>
			<i>Visible Flux</i>
			<i>Visible Imagery</i>
		<i>X-Ray</i>	<i>X-Ray</i>
		<i>Engineering/Sensor Quantities</i>	<i>Dome Temperature</i>
			<i>Phase and Amplitude</i>
			<i>Sink Temperature</i>
			<i>Ultraviolet Sensor Temperature</i>
	<i>Solar Activity</i>		<i>Corona Holes</i>
			<i>Coronal Properties</i>
			<i>Filaments</i>
			<i>Solar Active Regions</i>
			<i>Solar Events</i>
			<i>Solar Flares</i>
			<i>Solar Imagery</i>
			<i>Solar Oscillations</i>
			<i>Solar Prominences</i>
			<i>Sunspots</i>
			<i>Synoptic Maps</i>
			<i>Velocity Fields</i>
		<i>Solar Energetic Particles</i>	<i>Alpha Particles</i>
			<i>Particle Composition</i>
			<i>Particle Density</i>
			<i>Differential Flux</i>
			<i>Particle Distribution Functions</i>
			<i>Electron Flux</i>
			<i>Energetic Particles</i>
			<i>Energy Deposition</i>
			<i>Particle Flux</i>
			<i>Heavy Ions</i>
<i>SOLID EARTH</i>	<i>Geochemistry</i>		<i>Proton Flux</i>
			<i>Particle Speed</i>
			<i>Particle Temperature</i>
			<i>Chemical Weathering</i>
			<i>Fixation</i>
			<i>Hydration</i>

	<i>Ion Exchange</i>
	<i>Isotopes</i>
	<i>Oxidation/Reduction</i>
Geodetics/Gravity	<i>Control Surveys</i>
	<i>Crustal Motion</i>
	<i>Gravity</i>
	<i>Ocean Crust Deformation</i>
	<i>Polar Motion</i>
	<i>Reference Systems</i>
	<i>Rotational Variations</i>
	<i>Satellite Orbits</i>
Geomagnetism	<i>Geomagnetic Forecasts</i>
	<i>Geomagnetic Indices</i>
	<i>Geomagnetic Induction</i>
	<i>Magnetic Anomalies</i>
	<i>Magnetic Declination</i>
	<i>Magnetic Inclination</i>
	<i>Magnetic Intensity</i>
	<i>Paleomagnetism</i>
	<i>Reference Fields</i>
Geophysical Fields	<i>Electric Field</i>
	<i>Gravity Field</i>
	<i>Magnetic Field</i>
Geothermal	<i>Geothermal Energy</i>
	<i>Geothermal Temperature</i>
Natural Resources	<i>Coal</i>
	<i>Metals</i>
	<i>Natural Gas</i>
	<i>Non-Metallic Minerals</i>
	<i>Petroleum</i>
	<i>Radioactive Elements</i>
Rocks/Minerals	<i>Age Determinations</i>
	<i>Bedrock Lithology</i>
	<i>Crystals</i>
	<i>Igneous Rocks</i>
	<i>Metamorphic Rocks</i>
	<i>Meteorites</i>
	<i>Minerals</i>
	<i>Sedimentary Rocks</i>
Seismology	<i>Earthquake Dynamics</i>
	<i>Earthquake Predictions</i>
	<i>Earthquake Occurrences</i>
	<i>Seismic Body Waves</i>
	<i>Seismic Profile</i>
	<i>Seismic Surface Waves</i>

Tectonics	Continental Tectonics
	Convergence/Divergence
	Core Processes
	Crustal Motion
	Faults
	Folds
	Isostatic Rebound
	Neotectonics
	Stratigraphic Sequence
	Stress
	Eruption Dynamics
	Lava
	Magma
	Pyroclastics
	Volcanic Ash/Dust
	Volcanic Gases
Volcanoes	

3.45 ThemeKeywordsThesaurus

Description: Reference to the thesaurus used for the theme keywords.

Sources: CIP defined

Default Valid:

Valid
GCMD Parameter Keywords

3.46 UpdateFrequency

Description: The frequency with which changes and additions are made to the data set after the initial data set is completed.

Sources: ECS

Default Valid:

Valid	Description
Continually	The collection is updated more frequently than once a day.
Daily	The collection is updated once per day, every day.
Weekly	The collection is updated once per week.
Monthly	The collection is updated once per calendar month.
Annually	The collection is updated once per year; the first date of update is usually one year after the first date of receipt of data from this

Validates	Description
	<i>collection's source.</i>
<i>Unknown</i>	
<i>As Needed</i>	<i>The collection is updated as determined by the Principal Investigator or according to on demand requests from end users</i>
<i>Irregular</i>	<i>The collection is updated on an unscheduled but periodic basis.</i>
<i>None Planned</i>	<i>The collection is complete and therefore will not be updated further.</i>